



KSYH - KSYHM Series
Hydraulic Scotch Yoke Actuators



Quifer Actuators, sl



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Contact Us

quifer@quiferactuators.com

Phone: +34 972 50 61 08



KSYH/KSYHM SERIES

General Description

Hydraulic scotch yoke actuators QUIFER are in the market for more than 15 years. These actuators are popular for their high resistance and durability and, in consequence, the reduction of the maintenance cost in the production lines. For that reason, our actuators are used in the more exigent markets and environments like oil and gas, offshore platforms or vessels.

Actuators completely designed, machined and tested in our factory of Spain. Raw material origin of European Suppliers. Stock of the key pieces that allow us to give quick delivery time to our customers.

The linking surfaces of the actuators are designed according ISO 5211 and VDI/VDE 3845.

Design of the actuator is constructed according ISO9001:2008, LOM 10ATEX6032 and European Pressure Equipments Directive 97/23/EC 3.10

Standar Actuator Scope

	Double Acting	Spring Return
Torques:	10.000 Nm	50.000 Nm
Working pressure:	50 to 200 bar	
Supply:	Hydraulic Oil	
Working temperature:	From -20 to +80°C	
Rotation:	90 degrees Anticlockwise in opening	
Adjustments:	+/- 5°C to open +/- 5°C to close	
Lubrication:	Actuators lubricated for life	

The actuators are PED, ATEX and GOST certified and manufactured under the ISO9001:2008 rules with the continuous improvement policy.

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quifer@quiferactuators.com

Phone: +34 972 50 61 08



Technical Data

- ✓ Linking surfaces according ISO 5211 and VDI/VDE 3845
- ✓ All components have high resistance to corrosion
- ✓ All models have a double opening and closing regulation from the outside
- ✓ Multiple combination spring cartridges and air cylinders that allow a wide range of torques for one model
- ✓ All springs have a preloader, increasing safety
- ✓ All models are easily convertible from spring return to double acting and vice versa
- ✓ Modular construction allow the pneumatic cylinder and spring cartridge to be assembled to either both sides of the central body
- ✓ Spring cartridge welded to ensure safety when disassembling
- ✓ Totally enclosed weather proof central body

Options

- ✓ Low temperature versions up to -60°C
- ✓ High temperature up to +180°C
- ✓ Stainless Steel air cylinder
- ✓ Fast closing time actuators
- ✓ Actuators driven with Natural Gas, Sour Gas, Oxygen, etc, etc...
- ✓ Adjustable travel stops from 0° to 90°
- ✓ Actuators for SDV valves
- ✓ Canted version for butterfly valves and dampers available
- ✓ Special bolting and nuts
- ✓ Customized actuators

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quifer@quiferactuators.com
Phone: +34 972 50 61 08



Advantages

- ✓ Inner cylinder has been completely honey treated to obtain 0,3 – 0,4 mic. Rugosity
- ✓ Hard chromed cylinder as standard
- ✓ Piston with larger sliding surface to increase concentricity
- ✓ All bars made of chromed carbon steel
- ✓ All bushings made of bronze
- ✓ Bank of grease in all sliding parts of the actuator
- ✓ Nitrided yoke to increase life and sliding properties
- ✓ Oversided slide and slide block mechanism
- ✓ Special locking device between sliding block and bar
- ✓ 2 Springs for large sizes to avoid buckling
- ✓ Welded spring cartridge
- ✓ Travel stops located in the axial side of the actuator

Manual Override:

In case of air failure, we have the option to open or close the valve manually because actuators are easily fitted on detachable gearboxes as manual override.

Viable options include enclosed Jackscrew in both gear reducer and detachable versions, as well as different hydraulic override solutions.

This sealing system allows to be fitted in corrosive environments and they are supplied greased for their normal working life

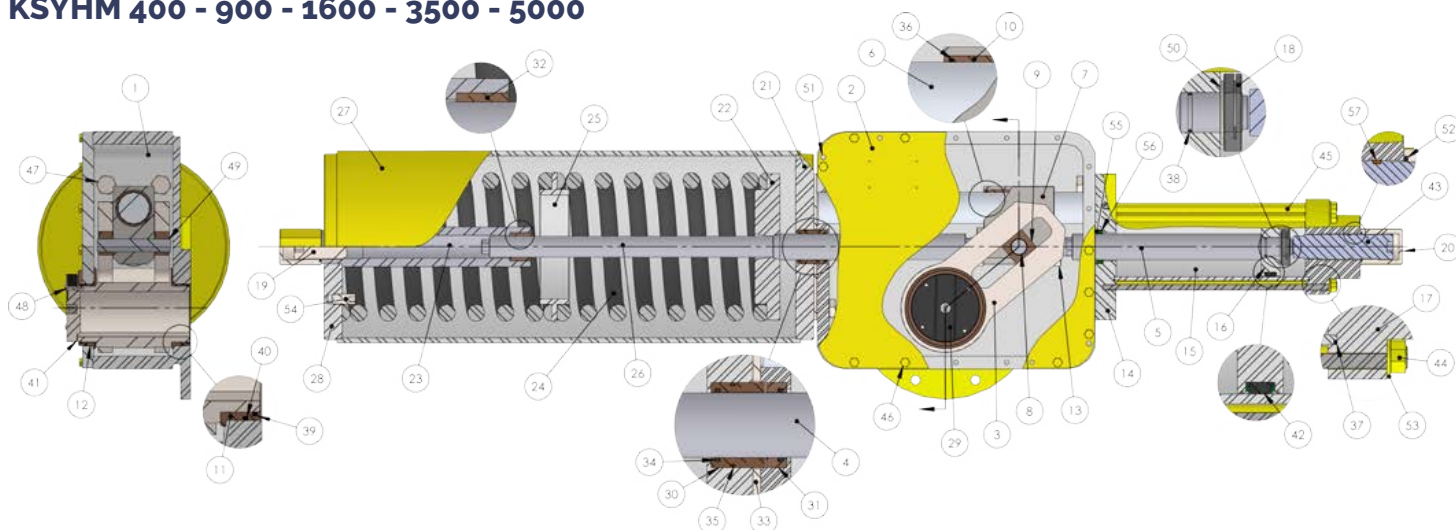
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quifer@quiferactuators.com
Phone: +34 972 50 61 08

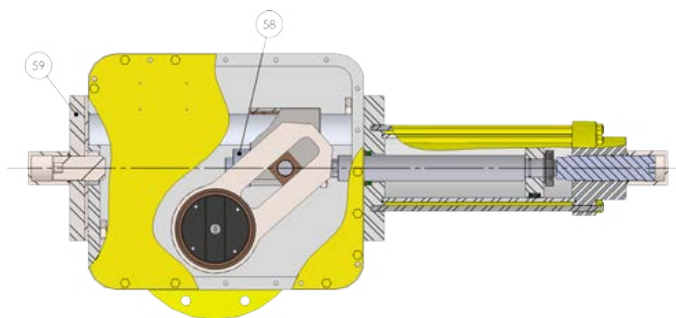


Materials

KSYHM 400 - 900 - 1600 - 3500 - 5000



KSYH 400 - 900 - 1600 - 3500 - 5000



Item	Description	Qty.	Material	Surface
1	Body	1	Alloy steel	
2	Cover	1	Alloy steel	
3	Yoke	1	Alloy steel	Tenifer
4	Spring cylinder bar	1SR - ODA	Alloy steel	Chromed
5	Piston rod	1	Alloy steel	Chromed
6	Guide bar	1	Alloy steel	Chromed
7	Slide block	1	Alloy steel	
8	Slide pin	1	Alloy steel	Chromed
9	Slide	2	Bronze	
10	Slide block tip	1	Bronze	
11	Body tip	1	Bronze	
12	Cover tip	1	Bronze	
13	Split washer	4	Alloy steel	
14	Cylinder front cover	1	Alloy steel	
15	Oil cylinder	1	ST-52	Chromed
16	Oil piston	1	Alloy steel	
17	Cylinder end cover	1	Alloy steel	
18	Lock nut	1	Alloy steel	
19	Travel stop bolt	1	Alloy steel	
20	Travel stop nut	2	Alloy steel	
21	Spring front cover	1SR - ODA	Alloy steel	
22	Spring retainer	1SR - ODA	Alloy steel	
23	Spring cylinder guide	1SR - ODA	ST-52	
24	Spring	2SR - ODA	Alloy steel	Polyurethane
25	Spring separator disc	1SR - ODA	Alloy steel	
26	Spring guide bar	1SR - ODA	Alloy steel	Chromed
27	Spring cylinder	1SR - ODA	ST-52	
28	Spring end cover	1SR - ODA	Alloy steel	
29	Indicator	1SR - ODA	Bronze	
30	Body rod tip I	1SR - ODA	Bronze	

Item	Description	Qty.	Material	Surface
31	Body rod tip II	1SR - ODA	Bronze	
32	Spring guide tip	1	Bronze	
33	Plate	1	Alloy steel	
34*	Body rod tip o-ring	3SR - 1DA	NBR	
35*	Body rod tip ext. o-ring	1SR - ODA	NBR	
36*	Slide block tip o-ring	2	NBR	
37*	Oil cylinder tip o-ring	2	NBR	
38*	Piston o-ring	1	NBR	
39*	Cover & body tip o-ring I	2	NBR	
40*	Cover & body tip o-ring II	2	NBR	
41*	Indicator seal	1	NBR	
42*	Compact piston seal	1	-	
43	Hydraulic travel stop bolt	1	Alloy steel	
44	Hexagon nut	8 to 24	-	
45	Tie bolt	8 to 24	Alloy steel	
46	Cover hexagonal bolt	16	-	
47	Body hexagonal bolt	8	-	
48	Indicator bolt	4	Stainless steel	
49	Retainer ring	2	-	
50	Washer	1	-	
51	Pin	2	-	
52*	Travel stop o-ring	2	NBR	
53	Tie bolt washer	8 to 24	Alloy steel	
54	Center spring bolt	6SR - ODA	Alloy steel	
55	Hydraulic rod tip	1	Bronze	
56*	Dynamic radial shaft seal	1	-	
57*	Static radial shaft seal	1	-	
58*	Travel stop double acting	OSR - 1DA	Alloy steel	
59*	Lateral plate double acting	OSR - 1DA	Alloy steel	Polyurethane

* SR: Spring return KSYHM | DA: Double Acting KSYH

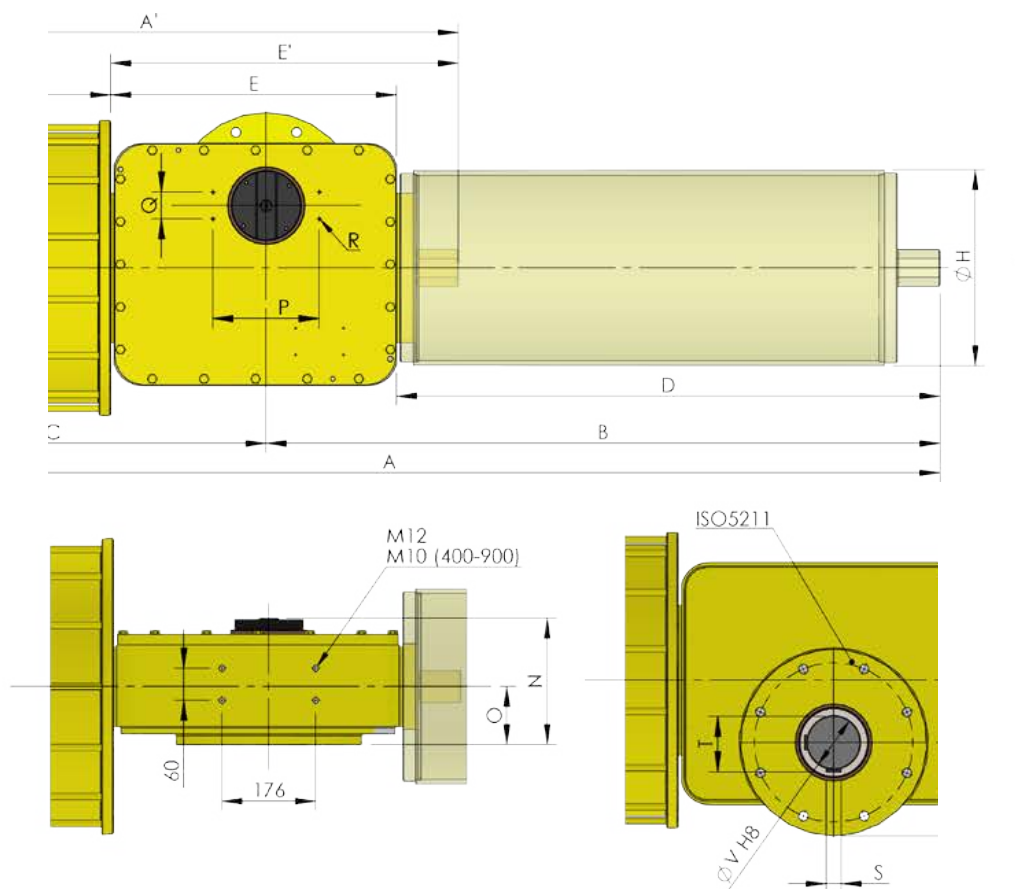
Contact Us

quifer@quiferactuators.com

Phone: +34 972 50 61 08



Dimensions KSYH | KSYHM



KSYH Dimensions 400 | 900 | 1600 | 3500

	A'	B	C	D	E'	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	ISO 5211	ALT.*	Oil CONN.*	Weight	Oil Vol
KSYH-400-40	849	-	570	-	475	374	125	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	72	0,177
KSYH-400-45	849	-	570	-	475	374	130	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	76	0,224
KSYH-400-50	849	-	570	-	475	374	135	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	80	0,277
KSYH-400-55	849	-	570	-	475	374	140	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	84	0,336
KSYH-400-60	849	-	570	-	475	374	145	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	87	0,399
KSYH-400-65	849	-	570	-	475	374	150	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	92	0,465
KSYH-400-70	849	-	570	-	475	374	155	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	97	0,544
KSYH-400-75	849	-	570	-	475	374	160	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	101	0,624
KSYH-400-80	849	-	570	-	475	374	165	-	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	104	0,711
KSYH-900-55	964	-	657	-	535	429	140	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	92	0,433
KSYH-900-60	964	-	657	-	535	429	145	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	96	0,515
KSYH-900-65	964	-	657	-	535	429	150	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	100	0,604
KSYH-900-70	964	-	657	-	535	429	155	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	104	0,701
KSYH-900-75	964	-	657	-	535	429	160	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	109	0,804
KSYH-900-80	964	-	657	-	535	429	165	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	112	0,915
KSYH-900-85	964	-	657	-	535	429	170	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	116	1,033
KSYH-900-90	964	-	657	-	535	429	175	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	120	1,158
KSYH-900-100	964	-	657	-	535	429	185	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	124	1,43
KSYH-900-110	964	-	657	-	535	429	195	-	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	128	1,731
KSYH-1600-65	1202	-	842	-	652	550	150	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/4" NPT	190	0,786
KSYH-1600-75	1202	-	842	-	652	550	160	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	196	1,046
KSYH-1600-80	1202	-	842	-	652	550	165	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	202	1,191
KSYH-1600-85	1202	-	842	-	652	550	170	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	208	1,344
KSYH-1600-90	1202	-	842	-	652	550	175	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	214	1,507
KSYH-1600-95	1202	-	842	-	652	550	180	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	220	1,679
KSYH-1600-105	1202	-	842	-	652	550	190	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	226	2,051
KSYH-1600-115	1202	-	842	-	652	550	200	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	232	2,451
KSYH-1600-130	1202	-	842	-	652	550	215	-	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/8" NPT	238	3,143
KSYH-3500-90	1293	-	910	-	700	593	175	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	3/8" NPT	225	1,798
KSYH-3500-100	1293	-	910	-	700	593	185	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	3/8" NPT	233	2,22
KSYH-3500-110	1293	-	910	-	700	593	195	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	3/8" NPT	241	2,687
KSYH-3500-115	1293	-	910	-	700	593	200	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	3/8" NPT	249	2,935
KSYH-3500-120	1293	-	910	-	700	593	205	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	3/8" NPT	257	3,197

Contact Us

quifer@quiferactuators.com

Phone: +34 972 50 61 08



KSYH Dimensions 3500 | 5000

	A'	B	C	D	E'	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	ISO 5211	ALT*	Oil CONN.*	Weight	Oil Vol
KSYH-3500-125	1293	-	910	-	700	593	210	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	265	3,469
KSYH-3500-130	1293	-	910	-	700	593	215	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	273	3,752
KSYH-3500-135	1293	-	910	-	700	593	220	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	281	4,045
KSYH-3500-140	1293	-	910	-	700	593	225	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	289	4,351
KSYH-3500-150	1293	-	910	-	700	593	235	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	297	4,995
KSYH-3500-160	1293	-	910	-	700	593	245	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	305	5,683
KSYH-3500-175	1293	-	910	-	700	593	260	-	573,5	347,5	226	140	283	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	313	6,799
KSYH-5000-95	1574	-	1095	-	874	700	180	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/8" NPT	487	2,415
KSYH-5000-110	1574	-	1095	-	874	700	195	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/8" NPT	498	3,238
KSYH-5000-115	1574	-	1095	-	874	700	200	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	509	3,539
KSYH-5000-120	1574	-	1095	-	874	700	205	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	520	3,853
KSYH-5000-130	1574	-	1095	-	874	700	215	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	531	4,522
KSYH-5000-140	1574	-	1095	-	874	700	225	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	542	5,245
KSYH-5000-150	1574	-	1095	-	874	700	235	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	553	6,021
KSYH-5000-160	1574	-	1095	-	874	700	245	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	564	6,851
KSYH-5000-170	1574	-	1095	-	874	700	255	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	576	7,733
KSYH-5000-190	1574	-	1095	-	874	700	275	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	586	9,661
KSYH-5000-200	1574	-	1095	-	874	700	285	-	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	597	10,704

NOTE: All dimensions are in mm | All dimensions and weigh are without brackets | Weight is in Kg Drawing is not scaled | Air volume is in litres

ALTER *: Alternative ISO5211 can be mechanized under request

AIR CONN: Air connection can be codified under request

KSYM Dimensions 400

	A'	B	C	D	E'	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	ISO 5211	ALT.*	Oil CONN.*	Weight	Oil Vol
KSYM-400-45-110	1389	819	570	650	365	374	130	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	146	0,224
KSYM-400-50-110	1389	819	570	650	365	374	135	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	149	0,227
KSYM-400-55-110	1389	819	570	650	365	374	140	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	153	0,336
KSYM-400-60-110	1389	819	570	650	365	374	145	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	157	0,339
KSYM-400-65-110	1389	819	570	650	365	374	150	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	161	0,465
KSYM-400-70-110	1389	819	570	650	365	374	155	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	165	0,544
KSYM-400-75-110	1389	819	570	650	365	374	160	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	168	0,624
KSYM-400-80-110	1389	819	570	650	365	374	165	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	173	0,711
KSYM-400-90-110	1389	819	570	650	365	374	175	267	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	177	0,899
KSYM-400-50-160	1420	850	570	681	365	374	135	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	158	0,277
KSYM-400-55-160	1420	850	570	681	365	374	140	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	162	0,336
KSYM-400-60-160	1420	850	570	681	365	374	145	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	166	0,399
KSYM-400-65-160	1420	850	570	681	365	374	150	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	170	0,465
KSYM-400-70-160	1420	850	570	681	365	374	155	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	174	0,544
KSYM-400-75-160	1420	850	570	681	365	374	160	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	178	0,624
KSYM-400-80-160	1420	850	570	681	365	374	165	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	181	0,711
KSYM-400-85-160	1420	850	570	681	365	374	170	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	186	0,802
KSYM-400-90-160	1420	850	570	681	365	374	175	324	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	190	0,899
KSYM-400-55-220	1437	867	570	698	365	374	140	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	189	0,336
KSYM-400-60-220	1437	867	570	698	365	374	145	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	193	0,399
KSYM-400-65-220	1437	867	570	698	365	374	150	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	197	0,465
KSYM-400-70-220	1437	867	570	698	365	374	155	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	200	0,544
KSYM-400-75-220	1437	867	570	698	365	374	160	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	205	0,624
KSYM-400-80-220	1437	867	570	698	365	374	165	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	209	0,711
KSYM-400-85-220	1437	867	570	698	365	374	170	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	213	0,802
KSYM-400-95-220	1437	867	570	698	365	374	180	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	1/4" NPT	217	1,002
KSYM-400-100-220	1437	867	570	698	365	374	185	305	348	175	173	70	189,5	87	130	30	M5	18	64,3	60	F16	-	3/8" NPT	221	1,111
KSYM-900-60-140	1619	962	657	770	420	429	145	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	193	0,515
KSYM-900-65-140	1619	962	657	770	420	429	150	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	197	0,604
KSYM-900-70-140	1619	962	657	770	420	429	155	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	201	0,701
KSYM-900-75-140	1619	962	657	770	420	429	160	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	205	0,804
KSYM-900-80-140	1619	962	657	770	420	429	165	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	209	0,915
KSYM-900-85-140	1619	962	657	770	420	429	170	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	213	1,033
KSYM-900-90-140	1619	962	657	770	420	429	175	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	217	1,158
KSYM-900-100-140	1619	962	657	770	420	429	185	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	221	1,43
KSYM-900-110-140	1619	962	657	770	420	429	195	267	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	225	1,731
KSYM-900-65-200	1574	917	657	725	420	429	150	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	229	0,604
KSYM-900-70-200	1574	917	657	725	420	429	155	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	234	0,701
KSYM-900-75-200	1574	917	657	725	420	429	160	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	238	0,804
KSYM-900-80-200	1574	917	657	725	420	429	165	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	242	0,915
KSYM-900-85-200	1574	917	657	725	420	429	170	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	246	1,033



KSYM Dimensions 900 | 1600 | 3500 | 5000

	A'	B	C	D	E'	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	ISO 5211	ALT*	Oil CONN.*	Wei- ght	Oil Vol
KSYM-900-90-200	1574	917	657	725	420	429	175	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	250	1,158
KSYM-900-95-200	1574	917	657	725	420	429	180	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	254	1,291
KSYM-900-100-200	1574	917	657	725	420	429	185	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	258	1,43
KSYM-900-110-200	1574	917	657	725	420	429	195	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	262	1,731
KSYM-900-65-290	1662	1005	657	813	420	429	150	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	239	0,604
KSYM-900-70-290	1662	1005	657	813	420	429	155	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	243	0,701
KSYM-900-75-290	1662	1005	657	813	420	429	160	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	247	0,804
KSYM-900-80-290	1662	1005	657	813	420	429	165	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	251	0,915
KSYM-900-85-290	1662	1005	657	813	420	429	170	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	255	1,033
KSYM-900-90-290	1662	1005	657	813	420	429	175	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	3/8" NPT	259	1,158
KSYM-900-95-290	1662	1005	657	813	420	429	180	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	263	1,291
KSYM-900-100-290	1662	1005	657	813	420	429	185	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	267	1,43
KSYM-900-105-290	1662	1005	657	813	420	429	190	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	271	1,577
KSYM-900-115-290	1662	1005	657	813	420	429	200	324	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	275	1,891
KSYM-900-70-390	1642	985	657	793	420	429	155	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	284	0,701
KSYM-900-75-390	1642	985	657	793	420	429	160	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	288	0,804
KSYM-900-80-390	1642	985	657	793	420	429	165	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/4" NPT	292	0,915
KSYM-900-85-390	1642	985	657	793	420	429	170	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	296	1,033
KSYM-900-90-390	1642	985	657	793	420	429	175	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	301	1,158
KSYM-900-95-390	1642	985	657	793	420	429	180	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	305	1,291
KSYM-900-105-390	1642	985	657	793	420	429	190	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	310	1,577
KSYM-900-110-390	1642	985	657	793	420	429	195	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	315	1,731
KSYM-900-120-390	1642	985	657	793	420	429	205	343	434	240	194	90	198,5	91	130	30	M5	20	76,7	72	F25	-	1/2" NPT	320	2,059
KSYM-1600-75-450	2113	1271	842	1026	537	550	160	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	367	1,046
KSYM-1600-80-450	2113	1271	842	1026	537	550	165	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	373	1,191
KSYM-1600-85-450	2113	1271	842	1026	537	550	170	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	379	1,344
KSYM-1600-90-450	2113	1271	842	1026	537	550	175	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	385	1,507
KSYM-1600-100-450	2113	1271	842	1026	537	550	185	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	391	1,86
KSYM-1600-105-450	2113	1271	842	1026	537	550	190	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	397	2,051
KSYM-1600-110-450	2113	1271	842	1026	537	550	195	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	403	2,251
KSYM-1600-120-450	2113	1271	842	1026	537	550	205	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	409	2,678
KSYM-1600-130-450	2113	1271	842	1026	537	550	215	368	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	417	3,143
KSYM-1600-75-510	2017	1175	842	930	537	550	160	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	362	1,045
KSYM-1600-80-510	2017	1175	842	930	537	550	165	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	370	1,191
KSYM-1600-85-510	2017	1175	842	930	537	550	170	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	378	1,344
KSYM-1600-95-510	2017	1175	842	930	537	550	180	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	386	1,679
KSYM-1600-100-510	2017	1175	842	930	537	550	185	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	394	1,86
KSYM-1600-105-510	2017	1175	842	930	537	550	190	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	402	2,051
KSYM-1600-110-510	2017	1175	842	930	537	550	195	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	410	2,251
KSYM-1600-115-510	2017	1175	842	930	537	550	200	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	418	2,451
KSYM-1600-120-510	2017	1175	842	930	537	550	205	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	426	2,678
KSYM-1600-125-510	2017	1175	842	930	537	550	210	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	434	2,906
KSYM-1600-130-510	2017	1175	842	930	537	550	215	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	442	3,143
KSYM-1600-135-510	2017	1175	842	930	537	550	220	381	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/4" NPT	450	3,389
KSYM-1600-80-650	2168	1326	842	1081	537	550	165	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	476	1,191
KSYM-1600-90-650	2168	1326	842	1081	537	550	175	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	484	1,507
KSYM-1600-100-650	2168	1326	842	1081	537	550	185	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	492	1,86
KSYM-1600-110-650	2168	1326	842	1081	537	550	195	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	500	2,25
KSYM-1600-120-650	2168	1326	842	1081	537	550	205	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	508	2,678
KSYM-1600-125-650	2168	1326	842	1081	537	550	210	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	516	2,906
KSYM-1600-130-650	2168	1326	842	1081	537	550	215	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	1/2" NPT	524	3,1434
KSYM-1600-135-650	2168	1326	842	1081	537	550	220	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/4" NPT	532	3,389
KSYM-1600-150-650	2168	1326	842	1081	537	550	235	406	513	292	221	117	237	109	200	50	M6	28	104,2	98	F30	F25	3/4" NPT	540	4,185
KSYM-3500-100-610	2468	1558	910	1294	581	593	185	381	573,5	347,5	226	140	237,5	115	200	50	M6	32	127,3	120	F35	F30	1/2" NPT	577	2,22
KSYM-3500-110-610	2468	1558	910	1294	581	593																			



KSYHM Dimensions 3500 - 5000

	A'	B	C	D	E'	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	V	ISO 5211	ALT.*	Oil CONN.*	Weight	Oil Vol
KSYHM-3500-160-1057	2473	1563	910	1299	581	593	245	521	573,5	347,5	226	140	237,5	115	200	50	M6	32	127,3	120	F35	F30	3/4" NPT	908	5,683
KSYHM-3500-180-1057	2473	1563	910	1299	581	593	265	521	573,5	347,5	226	140	237,5	115	200	50	M6	32	127,3	120	F35	F30	3/4" NPT	917	7,193
KSYHM-5000-100-1130	2799	1704	1095	1345	754	700	185	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	1191	2,676
KSYHM-5000-110-1130	2799	1704	1095	1345	754	700	195	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	1103	3,238
KSYHM-5000-125-1130	2799	1704	1095	1345	754	700	210	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1118	4,181
KSYHM-5000-140-1130	2799	1704	1095	1345	754	700	235	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1130	5,245
KSYHM-5000-150-1130	2799	1704	1095	1345	754	700	245	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1142	6,021
KSYHM-5000-160-1130	2799	1704	1095	1345	754	700	255	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1154	6,851
KSYHM-5000-170-1130	2799	1704	1095	1345	754	700	265	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1166	7,733
KSYHM-5000-190-1130	2799	1704	1095	1345	754	700	285	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1178	9,661
KSYHM-5000-200-1130	2799	1704	1095	1345	754	700	295	521	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1190	10,704
KSYHM-5000-105-1390	2652	1557	1095	1198	754	700	190	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	1/2" NPT	1306	2,951
KSYHM-5000-120-1390	2652	1557	1095	1198	754	700	205	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1318	3,853
KSYHM-5000-130-1390	2652	1557	1095	1198	754	700	215	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1330	4,522
KSYHM-5000-140-1390	2652	1557	1095	1198	754	700	225	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1342	5,245
KSYHM-5000-150-1390	2652	1557	1095	1198	754	700	235	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1354	6,021
KSYHM-5000-160-1390	2652	1557	1095	1198	754	700	245	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1366	6,851
KSYHM-5000-170-1390	2652	1557	1095	1198	754	700	255	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1378	7,733
KSYHM-5000-190-1390	2652	1557	1095	1198	754	700	275	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1390	9,661
KSYHM-5000-200-1390	2652	1557	1095	1198	754	700	285	570	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1402	10,704
KSYHM-5000-115-1800	2682	1587	1095	1228	754	700	200	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1433	3,539
KSYHM-5000-125-1800	2682	1587	1095	1228	754	700	210	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1445	4,181
KSYHM-5000-140-1800	2682	1587	1095	1228	754	700	225	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1457	5,245
KSYHM-5000-150-1800	2682	1587	1095	1228	754	700	235	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1469	6,021
KSYHM-5000-160-1800	2682	1587	1095	1228	754	700	245	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1481	6,851
KSYHM-5000-170-1800	2682	1587	1095	1228	754	700	255	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1493	7,733
KSYHM-5000-190-1800	2682	1587	1095	1228	754	700	275	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1505	9,661
KSYHM-5000-220-1800	2682	1587	1095	1228	754	700	305	609	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1517	12,952
KSYHM-5000-115-2220	2681	1586	1095	1227	754	700	200	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1615	3,539
KSYHM-5000-125-2220	2681	1586	1095	1227	754	700	210	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1624	4,181
KSYHM-5000-135-2220	2681	1586	1095	1227	754	700	220	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1636	4,877
KSYHM-5000-150-2220	2681	1586	1095	1227	754	700	235	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1648	6,021
KSYHM-5000-160-2220	2681	1586	1095	1227	754	700	245	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1660	6,851
KSYHM-5000-170-2220	2681	1586	1095	1227	754	700	255	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1672	7,733
KSYHM-5000-190-2220	2681	1586	1095	1227	754	700	275	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1684	9,661
KSYHM-5000-220-2220	2681	1586	1095	1227	754	700	305	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1696	12,952
KSYHM-5000-230-2220	2681	1586	1095	1227	754	700	315	622	689,5	407,5	282	170	314	154	260	50	M6	36	157,9	150	F40	F30	3/4" NPT	1708	14,156

NOTE: All dimensions are in mm | All dimensions and weigh are without brackets | Weight is in Kg Drawing is not scaled | Air volume is in litres

ALTER *: Alternative ISO5211 can be mechanized under request

AIR CONN: Air connection can be codified under request

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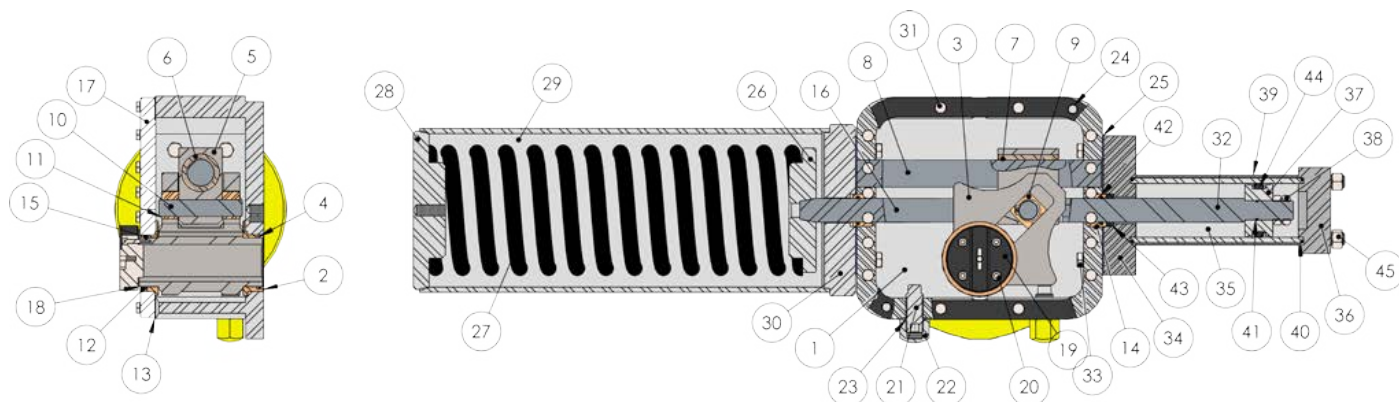
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Phone: +34 972 50 61 08

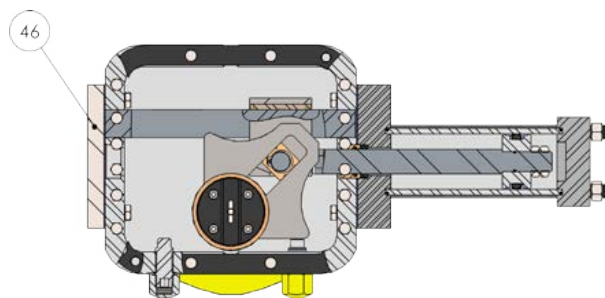


Materials KSYH/KSYHM 100

KSYHM 100



KSYH 100



Item	Description	Qty.	Material
1	Body	1	Alloy steel
2	Body tip	1	Bronze
3	Yoke	1	Alloy steel
4*	Body tip O-ring	2	NBR
5	Slide block	1	Alloy steel
6	Slide block tip	1	Bronze
7*	Slide block O-ring	2	NBR
8	Guide bar	1	Alloy steel
9	Slide	2	Bronze
10	Slide pin	1	Alloy steel
11	Packing ring	2	-
12	Cover tip	1	Bronze
13*	Cover seal	1	Klingerit
14	Piston rod tip	2SR - 1DA	Bronze
15*	Cover tip O-ring	2	NBR
16	Spring rod	1SR - 0DA	Alloy steel
17	Cover	1	Alloy steel
18*	Indicator seal	1	Neoprene
19	Indicator	1	Stainless steel
20	Indicator bolt	4	-
21	Travel stop bolt	2	Alloy steel
22	Travel stop nut	2	Alloy steel
23*	Travel stop O-ring	2	NBR
24	Cover fixed pin	2	Alloy steel

Item	Description	Qty.	Material
25*	Body seal	2	Klingerit
26	Spring retainer	1SR - 0DA	Alloy steel
27	Spring	1SR - 0DA	Alloy steel
28	Spring end cover	1SR - 0DA	ST-52
29	Spring cylinder	1SR - 0DA	ST-52
30	Spring front cover	1SR - 0DA	ST-52
31	Cover bolt	16	-
32	Piston rod	1	Alloy steel
33	Body hexagon bolt	8	-
34	Cylinder front cover	1	Alloy steel
35	Oil cylinder	1	ST-52
36	Cylinder end cover	1	Alloy steel
37	Piston	1	Alloy steel
38	Security nut	2	Alloy steel
39	Tie bolt	4	Alloy steel
40*	Cylinder cover O-ring	2	NBR
41*	Piston O-ring	1	NBR
42*	Piston rod tip O-ring	1	NBR
43*	Piston O-ring SH90	1	NBR
44*	Guide band	2	Teflon
45	Plate double acting	0SR - 1DA	Alloy steel
46*	Piston rod tip O-ring SH90	1	NBR
47*	Piston rod tip O-ring 2	1	NBR
48	Hexagon nut	4	Alloy steel

* Spare parts
SR: Spring return KSYHM
DA: Double Acting KSYH

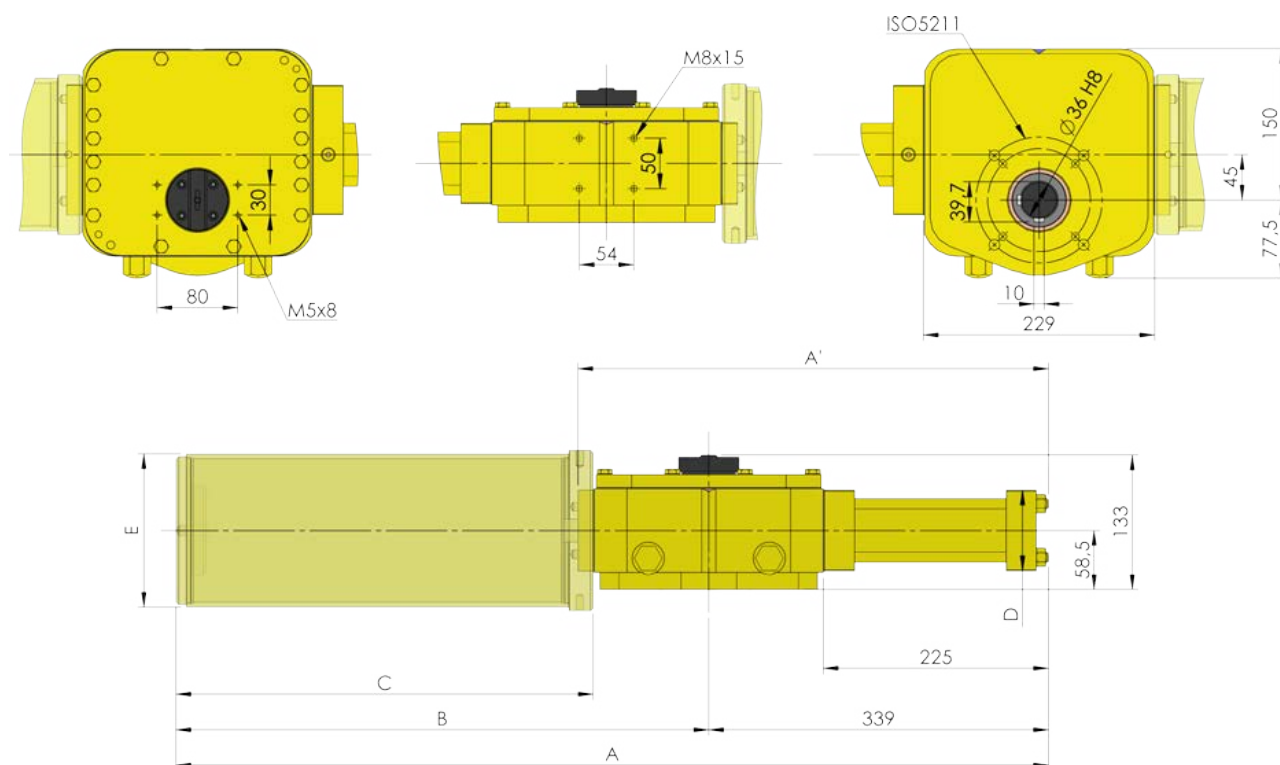
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quifer@quiferactuators.com

Phone: +34 972 50 61 08



Dimensions KSYH/KSYHM 100



	A-A'	B	C	D	E	Weight (Kg)	Oil volume (Lt)
KSYH-100-35	469	-	-	80	-	30	0,087
KSYH-100-40	469	-	-	80	-	31	0,113
KSYH-100-45	469	-	-	80	-	32	0,143
KSYH-100-50	469	-	-	80	-	32	0,177
KSYH-100-55	469	-	-	100	-	33	0,214
KSYH-100-60	469	-	-	100	-	34	0,254
KSYHM-100-40-23	799	460	376	80	194	60	0,113
KSYHM-100-45-23	799	460	376	80	194	61	0,143
KSYHM-100-50-23	799	460	376	80	194	61	0,177
KSYHM-100-55-23	799	460	376	100	194	62	0,214
KSYHM-100-60-23	799	460	376	100	194	63	0,254
KSYHM-100-65-23	799	460	376	100	194	64	0,298
KSYHM-100-70-23	799	460	376	100	194	65	0,346
KSYHM-100-40-46	867	527	413	80	152	53	0,113
KSYHM-100-45-46	867	527	413	80	152	54	0,143
KSYHM-100-50-46	867	527	413	80	152	54	0,177
KSYHM-100-55-46	867	527	413	100	152	55	0,214
KSYHM-100-60-46	867	527	413	100	152	56	0,254
KSYHM-100-65-46	867	527	413	100	152	57	0,298
KSYHM-100-70-46	867	527	413	100	152	58	0,346
KSYHM-100-40-78	1004	665	522	80	229	77	0,113
KSYHM-100-45-78	1004	665	552	80	229	78	0,143
KSYHM-100-50-78	1004	665	552	80	229	78	0,177
KSYHM-100-55-78	1004	665	522	100	229	79	0,214
KSYHM-100-60-78	1004	665	552	100	229	80	0,254
KSYHM-100-65-78	1004	665	552	100	229	81	0,298
KSYHM-100-70-78	1004	665	522	100	229	82	0,346
KSYHM-100-75-78	1004	665	552	110	229	84	0,397

All dimensions are in mm | All dimensions and weigh are without brackets | Weight is in Kg
Drawing is not scaled | Oil connection: 1/4" NPT | ISO5211: F10 - F12

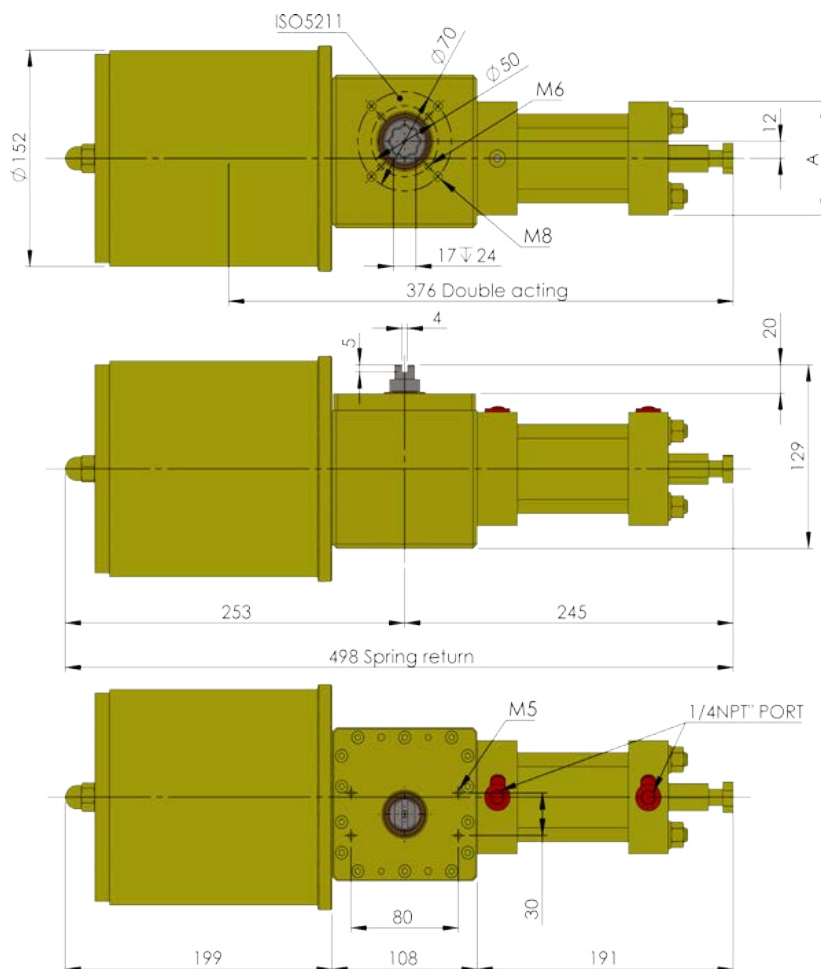
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quifer@quiferactuators.com

Phone: +34 972 50 61 08



Dimensions And Torques KSY/KSYHM 025



Model	Double Acting Torque			Double Acting & Spring Return									Hydraulic Stroke Torques (Nm) At Operating Pressure:																Wheight	Oil Volume			
				69 bar			86 bar			103 bar			121 bar			138 bar			155 bar			172 bar			207 bar								
	ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO						
	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°						
KSY / KSYM 025																																	
Double Acting	35	0.60 BTO	0.60 RTO	0.60 ETO	112	68	112	140	85	140	167	102	167	196	119	196	224	136	224	252	153	252	279	170	279	336	204	336	11	0,023			
	40	0.70 BTO	0.70 RTO	0.70 ETO	146	88	146	182	110	182	218	131	218	256	154	256	292	176	292	328	198	328						11,5	0,031				
	45	0.75 BTO	0.75 RTO	0.75 ETO	184	112	184	229	140	229	275	167	275	323	196	323											12	0,038					
	50	0.80 BTO	0.80 RTO	0.80 ETO	228	138	228	284	172	284	340	206	340														12	0,047					
	55	0.85 BTO	0.85 RTO	0.85 ETO	275	167	275	343	208	343																	12,5	0,057					
Spring Ret. So10	Spring Torque																																
	35	106	69	122										90	50	74	118	67	102	146	84	130	173	101	157	230	135	214	18,5	0,023			
	40	106	69	122										112	62	96	150	85	134	186	107	170	222	129	206	258	150	242	332	195	316	19	0,031
	45	106	69	122	78	43	62	123	71	107	169	98	153	217	127	201	262	155	246	307	183	291						19,5	0,038				
	50	106	69	122	122	69	106	178	103	162	234	137	218	294	173	278											19,5	0,047					
	55	106	69	122	169	98	153	237	139	221	305	180	289														20	0,057					
	60	106	69	122	222	130	206	303	179	287														21	0,068								

Dimension "A" is 100mm for cylinder 60, the rest of cylinders dimension "A" is 80

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quifer@quiferactuators.com

Phone: +34 972 50 61 08



Double Acting Symmetric Torques

		Symmetric		Hydraulic Stroke Torques (Nm) at Operating Pressure:									
		Max. Torque	Max. Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar
KSYH 400													
Ø Oil Cylinder	35	1500	207	0° BTO	293	388	484	580	681	777	872	968	1165
				45° RTO	180	239	298	357	419	478	537	596	717
				90° ETO	293	388	484	580	681	777	872	968	1165
				90° BTC	197	262	326	390	459	523	588	652	785
				45° RTC	121	161	201	240	282	322	362	401	483
				0° ETC	197	262	326	390	459	523	588	652	785
	40	1500	172	0° BTO	382	507	632	757	890	1014	1139	1264	
				45° RTO	235	312	389	466	547	624	701	778	
				90° ETO	382	507	632	757	890	1014	1139	1264	
				90° BTC	287	380	474	568	667	761	855	948	
				45° RTC	176	234	292	349	411	468	526	584	
				0° ETC	287	380	474	568	667	761	855	948	
	45	1500	155	0° BTO	484	642	800	958	1126	1284	1442		
				45° RTO	298	395	492	590	693	790	887		
				90° ETO	484	642	800	958	1126	1284	1442		
				90° BTC	388	515	642	769	903	1030	1157		
				45° RTC	239	317	395	473	556	634	712		
				0° ETC	388	515	642	769	903	1030	1157		
	50	1500	138	0° BTO	597	793	988	1183	1390	1585			
				45° RTO	368	488	608	728	855	975			
				90° ETO	597	793	988	1183	1390	1585			
				90° BTC	502	666	830	994	1167	1332			
				45° RTC	309	410	511	612	718	819			
				0° ETC	502	666	830	994	1167	1332			
	55	1500	103	0° BTO	723	959	1195	1432					
				45° RTO	445	590	736	881					
				90° ETO	723	959	1195	1432					
				90° BTC	627	832	1037	1242					
				45° RTC	386	512	638	764					
				0° ETC	627	832	1037	1242					
	60	1500	86	0° BTO	860	1141	1422						
				45° RTO	529	702	875						
				90° ETO	860	1141	1422						
				90° BTC	765	1014	1264						
				45° RTC	470	624	778						
				0° ETC	765	1014	1264						

25% Safety factor is recommended
35% For low temperature

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quifer@quiferactuators.com

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Double Acting Symmetric Torques

		Symmetric				Pneumatic Storke Torques (Nm) At Operating Pressure								
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar	
KSYH 400														
Ø Air Cylinder	45	4000	207	0°	BTO				1732	2034	2320	2606	2892	3480
				45°	RTO				975	1145	1306	1467	1628	2305
				90°	ETO				1309	1537	1753	1969	2185	2630
				90°	BTC				727	854	974	1094	1214	1461
				45°	RTC				541	636	726	815	904	1088
				0°	ETC				962	1130	1289	1448	1607	1933
	50	4000	172	0°	BTO		1432	1785	2138	2512	2864	3217	3570	
				45°	RTO		806	1005	1203	1414	1612	1811	2009	
				90°	ETO		1082	1349	1616	1898	2165	2431	2698	
				90°	BTC		693	863	1034	1215	1385	1556	1727	
				45°	RTC		516	643	770	905	1032	1159	1286	
				0°	ETC		917	1142	1368	1607	1833	2059	2285	
	55	4000	155	0°	BTO	1306	1733	2160	2587	3039	3466	3893		
				45°	RTO	735	975	1216	1456	1710	1951	2191		
				90°	ETO	987	1310	1632	1955	2296	2619	2942		
				90°	BTC	693	920	1147	1373	1613	1840	2066		
				45°	RTC	516	685	854	1023	1202	1370	1539		
				0°	ETC	917	1217	1517	1817	2135	2435	2735		
	60	4000	138	0°	BTO	1554	2062	2570	3079	3617	4125			
				45°	RTO	875	1161	1447	1733	2036	2322			
				90°	ETO	1174	1558	1942	2326	2733	3117			
				90°	BTC	881	1169	1457	1745	2050	2338			
				45°	RTC	656	871	1085	1300	1527	1741			
				0°	ETC	1166	1547	1928	2309	2712	3094			
	65	4000	121	0°	BTO	1824	2420	3017	3613	4245				
				45°	RTO	1027	1362	1698	2034	2389				
				90°	ETO	1378	1829	2280	2730	3207				
				90°	BTC	1085	1439	1794	2149	2524				
				45°	RTC	808	1072	1336	1600	1880				
				0°	ETC	1436	1905	2374	2843	3340				
	70	4000	103	0°	BTO	2116	2807	3499	4190					
				45°	RTO	1191	1580	1969	2359					
				90°	ETO	1599	2121	2644	3166					
				90°	BTC	1305	1732	2158	2585					
				45°	RTC	972	1290	1608	1925					
				0°	ETC	1727	2292	2856	3421					
	75	4000	86	0°	BTO	2429	3222	4016						
				45°	RTO	1367	1814	2261						
				90°	ETO	1835	2435	3035						
				90°	BTC	1542	2045	2549						
				45°	RTC	1148	1524	1899						
				0°	ETC	2040	2707	3374						
	80	4000	69	0°	BTO	2763	3666							
				45°	RTO	1555	2064							
				90°	ETO	2088	2771							
				90°	BTC	1794	2381							
				45°	RTC	1337	1773							
				0°	ETC	2375	3151							

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35% For low temperature

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quifer@quiferactuators.com

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Double Acting Symmetric Torques

		Symmetric				Pneumatic Storke Torques (Nm) At Operating Pressure								
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke		52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar
KSYH 900														
Ø Air Cylinder	65	9000	207	0°	BTO				4645	5457	6224	6991	7757	9336
				45°	RTO				2615	3072	3503	3935	4366	5255
				90°	ETO				3510	4124	4703	5283	5862	7055
				90°	BTC				2181	2562	2922	3282	3642	4383
				45°	RTC				1624	1908	2177	2445	2713	3265
				0°	ETC				2886	3391	3867	4343	4820	5800
	70	9000	172	0°	BTO			4498	5388	6329	7218	8108	8997	
				45°	RTO			2532	3032	3562	4063	4563	5064	
				90°	ETO			3399	4071	4783	5455	6127	6798	
				90°	BTC			2289	2742	3221	3673	4126	4579	
				45°	RTC			1705	2042	2399	2736	3073	3410	
				0°	ETC			3030	3628	4262	4861	5460	6059	
	75	9000	155	0°	BTO	3122	4143	5164	6185	7266	8286	9307		
				45°	RTO	1757	2332	2907	3481	4089	4664	5238		
				90°	ETO	2359	3131	3902	4674	5490	6262	7033		
				90°	BTC	1688	2240	2792	3344	3929	4481	5032		
				45°	RTC	1258	1669	2080	2491	2926	3337	3748		
				0°	ETC	2234	2965	3695	4426	5199	5929	6660		
	80	9000	121	0°	BTO	3553	4714	5875	7037	8267				
				45°	RTO	2000	2653	3307	3961	4653				
				90°	ETO	2685	3562	4440	5317	6247				
				90°	BTC	2013	2672	3330	3988	4685				
				45°	RTC	1500	1990	2480	2970	3490				
				0°	ETC	2664	3535	4407	5278	6200				
	85	9000	121	0°	BTO	4011	5322	6633	7944	9332				
				45°	RTO	2257	2995	3733	4471	5253				
				90°	ETO	3031	4021	5012	6003	7052				
				90°	BTC	2359	3131	3902	4674	5490				
				45°	RTC	1757	2332	2907	3481	4089				
				0°	ETC	3122	4143	5164	6185	7266				
	90	9000	103	0°	BTO	4496	5966	7436	8906					
				45°	RTO	2531	3358	4185	5013					
				90°	ETO	3398	4508	5619	6730					
				90°	BTC	2726	3618	4509	5401					
				45°	RTC	2031	2695	3359	4023					
				0°	ETC	3608	4788	5967	7147					
	100	9000	86	0°	BTO	5551	7366	9180						
				45°	RTO	3124	4146	5167						
				90°	ETO	4195	5566	6937						
				90°	BTC	3523	4675	5827						
				45°	RTC	2624	3482	4340						
				0°	ETC	4663	6187	7711						
	110	9000	69	0°	BTO	6717	8912							
				45°	RTO	3780	5016							
				90°	ETO	5075	6735							
				90°	BTC	4404	5844							
				45°	RTC	3281	4353							
				0°	ETC	5828	7734							

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Double Acting Symmetric Torques

		Symmetric			Pneumatic Storke Torques (Nm) At Operating Pressure								
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar
KSYH 1600													
Ø AIR CYLINDER	75	16000	207	0°	BTO					10772	12099	13426	16158
				45°	RTO					6063	6810	7557	9095
				90°	ETO					8140	9143	10146	12210
				90°	BTC					4806	5398	5990	7209
				45°	RTC					3580	4021	4462	5369
				0°	ETC					6360	7143	7927	9540
	80	16000	172	0°	BTO				10747	12256	13766	15276	
				45°	RTO				6049	6898	7748	8598	
				90°	ETO				8121	9262	10403	11543	
				90°	BTC				5197	5927	6658	7388	
				45°	RTC				3871	4415	4959	5503	
				0°	ETC				6878	7844	8810	9777	
	85	16000	155	0°	BTO			10327	12132	13836	15541		
				45°	RTO			5813	6828	7788	8747		
				90°	ETO			7804	9168	10456	11744		
				90°	BTC			5315	6244	7121	7999		
				45°	RTC			3959	4651	5304	5958		
				0°	ETC			7034	8263	9424	10585		
	90	16000	138	0°	BTO			9667	11578	13601	15512		
				45°	RTO			5441	6517	7655	8731		
				90°	ETO			7305	8749	10278	11722		
				90°	BTC			5227	6260	7354	8388		
				45°	RTC			3893	4663	5478	6247		
				0°	ETC			6917	8285	9732	11100		
	95	16000	121	0°	BTO	6513	8642	10771	12900	15154			
				45°	RTO	3666	4864	6062	7261	8530			
				90°	ETO	4921	6530	8139	9748	11451			
				90°	BTC	3665	4863	6061	7259	8528			
				45°	RTC	2730	3622	4515	5407	6352			
				0°	ETC	4850	6436	8021	9607	11286			
	105	16000	103	0°	BTO	7956	10557	13158	15759				
				45°	RTO	4478	5942	7406	8870				
				90°	ETO	6012	7977	9943	11908				
				90°	BTC	4756	6310	7865	9420				
				45°	RTC	3542	4700	5858	7016				
				0°	ETC	6293	8351	10408	12465				
	115	16000	86	0°	BTO	9543	12663	15783					
				45°	RTO	5371	7128	8884					
				90°	ETO	7212	9569	11927					
				90°	BTC	5955	7902	9849					
				45°	RTC	4436	5886	7336					
				0°	ETC	7881	10457	13034					
	130	16000	69	0°	BTO	12195	16182						
				45°	RTO	6864	9108						
				90°	ETO	9216	12228						
				90°	BTC	7959	10561						
				45°	RTC	5928	7866						
				0°	ETC	10533	13976						

25% Safety factor is recommended
35% For low temperature

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quifer@quiferactuators.com
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Double Acting Symmetric Torques

		Symmetric		Pneumatic Storke Torques (Nm) At Operating Pressure										
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar	
KSYH 3500														
Ø AIR CYLINDER	100	35000	207	0°	BTO				17103	20092	22915	25738	28561	34373
				45°	RTO				9627	11309	12898	14487	16076	19347
				90°	ETO				12924	15183	17316	19449	21582	25974
				90°	BTC				9947	11685	13326	14968	16610	19990
				45°	RTC				7409	8703	9926	11149	12372	14889
				0°	ETC				13163	15463	17636	19808	21981	26453
	110	35000	172	0°	BTO			17279	20695	24312	27727	31143	34559	
				45°	RTO			9726	11648	13684	15606	17529	19451	
				90°	ETO			13057	15638	18371	20952	23534	26115	
				90°	BTC			10571	12661	14873	16963	19052	21142	
				45°	RTC			7874	9430	11078	12635	14191	15748	
				0°	ETC			13989	16754	19682	22448	25213	27978	
	115	35000	155	0°	BTO			18886	22619	26572	30305	34039		
				45°	RTO			10630	12731	14956	17057	19159		
				90°	ETO			14271	17092	20079	22901	25722		
				90°	BTC			11785	14115	16581	18911	21241		
				45°	RTC			8778	10513	12350	14086	15821		
				0°	ETC			15596	18679	21943	25026	28109		
	125	35000	138	0°	BTO	13492	17903	22313	26724	31394	35805	40216		
				45°	RTO	7594	10076	12559	15042	17670	20153	22635		
				90°	ETO	10195	13528	16861	20194	23723	27056	30389		33722
				90°	BTC	8692	11533	14375	17217	20225	23067	25908		28750
				45°	RTC	6474	8591	10707	12824	15065	17181	19298		21414
				0°	ETC	11502	15263	19023	22783	26765	30525	34286		38046
	135	35000	103	0°	BTO	15737	20882	26026	31171					
				45°	RTO	8857	11753	14649	17545					
				90°	ETO	11892	15779	19667	23555					
				90°	BTC	10388	13784	17181	20577					
				45°	RTC	7738	10267	12797	15327					
				0°	ETC	13747	18242	22736	27230					
	140	35000	103	0°	BTO	16924	22457	27990	33523					
				45°	RTO	9526	12640	15754	18868					
				90°	ETO	12789	16970	21151	25332					
				90°	BTC	11285	14975	18664	22354					
				45°	RTC	8406	11154	13902	16650					
				0°	ETC	14935	19817	24700	29582					
	160	35000	86	0°	BTO	22105	29331	36558						
				45°	RTO	12442	16509	20577						
				90°	ETO	16704	22165	27625						
				90°	BTC	15200	20170	25139						
				45°	RTC	11322	15023	18725						
				0°	ETC	20115	26692	33268						
	170	35000	69	0°	BTO	24954	33113							
				45°	RTO	14046	18637							
				90°	ETO	18857	25022							
				90°	BTC	17354	23027							
				45°	RTC	12926	17151							
				0°	ETC	22965	30473							

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Double Acting Symmetric Torques

		Symmetric			Pneumatic Storke Torques (Nm) At Operating Pressure									
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar	
KSYH 5000														
Ø AIR CYLINDER	115	50000	207	0°	BTO					34053	38248	42443	51080	
				45°	RTO					20712	23264	25816	31069	
				90°	ETO					29612	33260	36908	44418	
				90°	BTC					20725	23278	25831	31088	
				45°	RTC					14496	16282	18068	21745	
				0°	ETC					23833	26769	29706	35750	
	130	50000	155	0°	BTO				32479	38156	43516	48877		
				45°	RTO				19755	23208	26468	29729		
				90°	ETO				28244	33179	37841	42503		
				90°	BTC				21611	25387	28954	32521		
				45°	RTC				15116	17757	20252	22747		
				0°	ETC				24852	29195	33296	37398		
	140	50000	138	0°	BTO				37669	44251	50468			
				45°	RTO				22911	26915	30697			
				90°	ETO				32756	38480	43887			
				90°	BTC				26123	30688	35000			
				45°	RTC				18272	21465	24481			
				0°	ETC				30041	35290	40249			
	150	50000	121	0°	BTO			36105	43242	50799				
				45°	RTO			21960	26301	30898				
				90°	ETO			31396	37602	44174				
				90°	BTC			25858	30969	36382				
				45°	RTC			18087	21662	25447				
				0°	ETC			29736	35614	41838				
	160	50000	103	0°	BTO	24839	32959	41079	49200					
				45°	RTO	15108	20047	24986	29925					
				90°	ETO	21599	28661	35722	42783					
				90°	BTC	18251	24217	30184	36150					
				45°	RTC	12765	16939	21112	25285					
				0°	ETC	20988	27849	34710	41572					
	170	50000	86	0°	BTO	28041	37208	46375						
				45°	RTO	17055	22631	28207						
				90°	ETO	24384	32355	40327						
				90°	BTC	21035	27912	34788						
				45°	RTC	14713	19523	24333						
				0°	ETC	24190	32098	40006						
	190	50000	69	0°	BTO	35026	46477							
				45°	RTO	21304	28269							
				90°	ETO	30458	40416							
				90°	BTC	27110	35972							
				45°	RTC	18962	25161							
				0°	ETC	31175	41367							
	200	50000	69	0°	BTO	38810	51498							
				45°	RTO	23606	31323							
				90°	ETO	33749	44782							
				90°	BTC	30400	40339							
				45°	RTC	21264	28215							
				0°	ETC	34959	46389							

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Phone: +34 972 50 61 08



Spring Return Symmetric Fail Close Torques

			Spring Torque			Symmetric Fail Close						Hydraulic Storke Torques (Nm) At Operating Pressure																		
						69 bar			86 bar			103 bar			121 bar			138 bar			155 bar			172 bar			207 bar			
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	
KSYHM 100	S023	40	234	181	363	312	151	183	447	232	318	581	314	452	724	401	595	859	482	730	993	564	864	1128	646	999	1405	814	1276	
		45	234	181	363	457	239	328	628	342	499	798	446	669	978	555	849	1149	659	1020	1319	762	1190	1489	865	1360	1840	1078	1711	
		50	234	181	363	620	337	491	830	465	701	1040	593	911	1263	728	1134	1473	855	1344	1683	983	1554							
		55	234	181	363	799	446	670	1053	601	924	1308	755	1179	1577	919	1448	1832	1073	1703										
		60	234	181	363	995	565	866	1298	749	1169	1601	933	1472																
		65	234	181	363	1208	695	1079	1564	911	1435																			
		70	234	181	363	1439	835	1310	1851	1085	1722																			
	S046	40	460	333	666							425	203	219	580	296	374	726	385	520	872	473	666	1018	562	812	1319	744	1113	
		45	460	333	666	291	121	85	476	233	270	660	345	454	856	464	650	1041	576	835	1226	688	1020	1411	800	1205	1792	1030	1586	
		50	460	333	666	467	228	261	695	366	489	923	504	717	1165	651	959	1393	789	1187	1622	927	1416							
		55	460	333	666	661	346	455	938	513	732	1214	680	1008	1506	857	1300	1783	1024	1577										
		60	460	333	666	874	475	668	1203	674	997	1532	873	1326	1880	1083	1674													
		65	460	333	666	1106	615	900	1492	848	1286	1878	1082	1672																
		70	460	333	666	1356	766	1150	1804	1037	1598																			
	S078	40	782	568	1144																550	238	188	696	327	334	997	509	635	
		45	782	568	1144													719	341	357	904	453	542	1089	565	727	1470	795	1108	
		50	782	568	1144							601	269	239	843	416	481	1071	554	709	1300	692	938	1528	830	1166	1998	1115	1636	
		55	782	568	1144				616	278	254	892	445	530	1184	622	822	1461	789	1099	1737	957	1375							
		60	782	568	1144	552	240	190	881	439	519	1210	638	848	1558	848	1196	1887	1047	1525										
		65	782	568	1144	784	380	422	1170	613	808	1556	847	1194	1964	1094	1602													
		70	782	568	1144	1034	531	672	1482	802	1120	1929	1073	1567																
		75	782	568	1144	1303	694	941	1817	1005	1455																			
	KSYHM 400	S110	50	1175	854	1342										1337	560	556	1689	758	823	2042	957	1089	2395	1155	1356	3122	1564	1905
			55	1175	854	1342				985	362	290	1412	602	613	1864	856	954	2291	1097	1277	2718	1337	1600	3145	1577	1922	4024	2072	2587
			60	1175	854	1342				1395	593	600	1904	879	984	2442	1182	1391	2950	1468	1775	3458	1754	2159	3966	2040	2543	5012	2628	3333
			65	1175	854	1342	1245	508	487	1842	844	938	2438	1180	1388	3070	1535	1865	3666	1871	2316	4262	2206	2767						
			70	1175	854	1342	1632	726	779	2324	1115	1302	3015	1505	1824	3748	1917	2378	4439	2306	2900									
			75	1175	854	1342	2047	960	1093	2841	1407	1693	3635	1853	2293	4476	2327	2928												
80			1175	854	1342	2491	1210	1429	3395	1718	2111	4298	2227	2794																
90			1175	854	1342	3465	1758	2165	4609	2401	3028																			
S160		55	1662	1209	1900										1377	501	396	1804	742	719	2231	982	1042	2658	1222	1364	3537	1717	2029	
		60	1662	1209	1900							1417	524	426	1955	827	833	2463	1113	1217	2971	1399	1601	3479	1685	1985	4525	2273	2775	
		65	1662	1209	1900				1355	489	380	1951	825	830	2583	1180	1307	3179	1516	1758	3775	1851	2209	4372	2187	2659				
		70	1662	1209	1900	1145	371	221	1837	760	744	2528	1150	1266	3261	1562	1820	3952	1951	2342	4644	2340	2865							
		75	1662	1209	1900	1560	605	535	2354	1052	1135	3148	1498	1735	3989	1972	2370	4783	2419	2970										
		80	1662	1209	1900	2004	855	871	2908	1363	1553	3811	1872	2236	4768	2410	2959													
		85	1662	1209	1900	2477	1121	1228	3497	1695	1998	4517	2269	2769																
		90	1662	1209	1900	2978	1403	1607	4122	2046	2470	5265	2690	3334																
S220		60	2290	1715	2680													1835	607	437	2343	893	821	2851	1179	1205	3897	1767	1995	
		65	2290	1715	2680										1955	674	527	2551	1010	978	3147	1345	1429	3744	1681	1879	4971	2372	2807	
		70	2290	1715	2680							1900	644	486	2633	1056	1040	3324	1445	1562	4016	1834	2085	4707	2224	2608				
	75	2290	1715	2680				1726	546	355	2520	992	955	3361	1466	1590	4155	1913	2190	4949	2359	2790								
	80	2290	1715	2680				2280	857	773	3183	1366	1456	4140	1904	2179	5043	2412	2861											
	85	2290	1715	2680	1849	615	448	2869	1189	1218	3889	1763	1989	4968	2370	2805														
	95	2290	1715	2680	2880	1195	1227	4154	1912	2190	5428	2629	3152																	
105	2290	1715	2680	4026	1840	2093	5582	2716	3269																					



Spring Return Symmetric Fail Close Torque

			Spring Torque			Symmetric Fail Close						Hydraulic Storke Torques (Nm) At Operating Pressure																				
												69 bar			86 bar			103 bar			121 bar			138 bar			155 bar			172 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO			
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°			
KSYHM 900	S140	65	1427	1067	1700	1685	685	652	2452	1116	1231	3218	1548	1810	4030	2005	2424	4797	2436	3003	5564	2868	3583	6330	3299	4162	7909	4188	5355			
		70	1427	1067	1700	2182	964	1027	3071	1465	1699	3961	1965	2371	4902	2495	3083	5791	2996	3755	6681	3496	4427	7570	3997	5098	9400	5027	6482			
		75	1427	1067	1700	2716	1265	1431	3737	1840	2202	4758	2414	2974	5839	3022	3790	6859	3597	4562	7880	4171	5333	8901	4746	6104	11002	5929	7692			
		80	1427	1067	1700	3287	1586	1862	4448	2240	2740	5610	2894	3617	6840	3586	4547	8001	4240	5424	9162	4893	6302									
		85	1427	1067	1700	3895	1928	2321	5206	2666	3312	6517	3404	4303	7905	4186	5352	9216	4924	6343												
		90	1427	1067	1700	4539	2291	2808	6009	3118	3919	7479	3946	5030	9035	4822	6206	10505	5649	7317												
		100	1427	1067	1700	5939	3079	3866	7753	4100	5237	9568	5122	6609																		
		110	1427	1067	1700	7485	3949	5035	9681	5185	6694																					
	S200	70	2061	1451	2451				2437	1081	948	3327	1581	1620	4268	2111	2332	5157	2612	3004	6047	3112	3676	6936	3613	4347	8766	4643	5731			
		75	2061	1451	2451	2082	881	680	3103	1456	1451	4124	2030	2223	5205	2638	3039	6225	3213	3811	7246	3787	4582	8267	4362	5353	10368	5545	6941			
		80	2061	1451	2451	2653	1202	1111	3814	1856	1989	4976	2510	2866	6206	3202	3796	7367	3856	4673	8528	4509	5551	9690	5163	6429						
		85	2061	1451	2451	3261	1544	1570	4572	2282	2561	5883	3020	3552	7271	3802	4601	8582	4540	5592	9893	5278	6582									
		90	2061	1451	2451	3905	1907	2057	5375	2734	3168	6845	3562	4279	8401	4438	5455	9871	5265	6566												
		95	2061	1451	2451	4586	2291	2572	6224	3212	3810	7862	4134	5047	9596	5110	6358															
		100	2061	1451	2451	5305	2695	3115	7119	3716	4486	8934	4738	5858	10856	5819	7309															
		110	2061	1451	2451	6851	3565	4284	9047	4801	5943	11243	6037	7602																		
	S290	70	2938	2050	3460							2450	982	611	3391	1512	1323	4280	2013	1995	5170	2513	2667	6059	3014	3338	7889	4044	4722			
		75	2938	2050	3460							3247	1431	1214	4328	2039	2030	5348	2614	2802	6369	3188	3573	7390	3763	4344	9491	4946	5932			
		85	2938	2050	3460				3695	1683	1552	5006	2421	2543	6394	3203	3592	7705	3941	4583	9016	4679	5573	10328	5417	6564						
		90	2938	2050	3460	3028	1308	1048	4498	2135	2159	5968	2963	3270	7524	3839	4446	8994	4666	5557	10464	5493	6668									
		95	2938	2050	3460	3709	1692	1563	5347	2613	2801	6985	3535	4038	8719	4511	5349	10357	5433	6586												
		100	2938	2050	3460	4428	2096	2106	6242	3117	3477	8057	4139	4849	9979	5220	6300															
		105	2938	2050	3460	5183	2521	2676	7183	3647	4188	9184	4773	5700	11302	5965	7301															
		115	2938	2050	3460	6803	3433	3901	9203	4784	5714	11603	6134	7528																		
	S390	75	3956	2757	4668													4330	1907	1594	5351	2481	2365	6372	3056	3136	8473	4239	4724			
		80	3956	2757	4668													4311	1896	1579	5472	2550	2456	6633	3203	3334	7795	3857	4212			
		85	3956	2757	4668							3988	1714	1335	5376	2496	2384	6687	3234	3375	7998	3972	4365	9310	4710	5356						
		90	3956	2757	4668				3480	1428	951	4950	2256	2062	6506	3132	3238	7976	3959	4349	9446	4786	5460									
95		3956	2757	4668				4329	1906	1593	5967	2828	2830	7701	3804	4141	9339	4726	5378													
105		3956	2757	4668	4165	1814	1468	6165	2940	2980	8166	4066	4492	10284	5258	6093																
110		3956	2757	4668	4956	2259	2067	7152	3495	3726	9348	4731	5385																			
120		3956	2757	4668	6650	3213	3347	9264	4684	5322	11877	6154	7296																			
KSYHM 1600	S450	80	4555	3221	4992							4593	1928	1921	6192	2828	3129	7701	3677	4270	9211	4527	5411	10721	5377	6551	13830	7127	8900			
		85	4555	3221	4992				4068	1632	1524	5772	2592	2812	7577	3607	4176	9281	4567	5464	10986	5526	6752	12690	6485	8040	16199	8461	10691			
		90	4555	3221	4992	3201	1144	869	5112	2220	2313	7023	3296	3757	9046	4434	5286	10957	5510	6730	12868	6585	8174	14779	7661	9618	18713	9875	12591			
		100	4555	3221	4992	5020	2168	2244	7379	3496	4026	9739	4824	5809	12236	6230	7697	14596	7558	9479	16955	8886	11262									
		105	4555	3221	4992	6002	2721	2985	8603	4185	4951	11204	5649	6916	13958	7199	8997	16559	8663	10963												
		110	4555	3221	4992	7031	3300	3763	9886	4907	5920	12740	6514	8077	15763	8215	10361	18617	9821	12518												
		120	4555	3221	4992	9233	4540	5427	12631	6452	7994	16028	8364	10562	19625	10388	13280															
		130	4555	3221	4992	11627	5887	7236	15614	8131	10249	19601	10375	13262																		
	S510	80	5131	4026	6559													7125	2872	2703	8635	3722	3844	10145	4572	4984	13254	6322	7333			
		85	5131	4026	6559													7001	2802	2609	8705	3762	3897	10410	4721	5185	12114	5680	6473			
		95	5131	4026	6559				5640	2036	1580	7769	3235	3189	10023	4504	4892	12152	5702	6501	14282	6900	8110	16411	8099	9719	20794	10566	13032			
		100	5131	4026	6559	4444	1363	677	6803	2691	2459	9163	4019	4242	11660	5425	6130	14020	6753	7912	16379	8081	9695	18738	9409	11478						
		105	5131	4026	6559	5426	1916	1418	8027	3380	3384	10628	4844	5349	13382	6394	7430	15983	7858	9396	18583	9322	11361									
		115	5131	4026	6559	7532	3102	3010	10652	4858	5368	13772	6614	7725	17076	8473	10222															
		125	5131	4026	6559	9830	4395	4747	13517	6470	7532	17203	8544	10318																		
		135	5131	4026	6559	12320	5796	6628	16619	8216	9877	20919	10636	13126																		



Spring Return Symmetric Fail Close Torque

			Spring Torque			Symmetric Fail Close						Hydraulic Stork Torques (Nm) At Operating Pressure																	
						3 bar / 43,5 PSI			4 bar / 58 PSI			5 bar / 72,5 PSI			5,5 bar / 80 PSI			6 bar / 87 PSI			7 bar / 101,5 PSI			8 bar / 116 PSI			9 bar / 130 PSI		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
KSYHM 1600	S650	90	6528	5017	8099										7073	2638	2179	8984	3714	3623	10895	4789	5067	12806	5865	6511	16740	8079	9484
		95	6528	5017	8099										8626	3513	3352	10755	4711	4961	12885	5909	6570	15014	7108	8179	19397	9575	11492
		100	6528	5017	8099							7766	3028	2702	10263	4434	4590	12623	5762	6372	14982	7090	8155	17341	8418	9938			
		110	6528	5017	8099				7913	3111	2813	10767	4718	4970	13790	6419	7254	16644	8025	9411	19499	9632	11568						
		115	6528	5017	8099	6135	2111	1470	9255	3867	3828	12375	5623	6185	15679	7482	8682	18799	9238	11039									
		125	6528	5017	8099	8433	3404	3207	12120	5479	5992	15806	7553	8778	19709	9750	11727												
		135	6528	5017	8099	10923	4805	5088	15222	7225	8337	19522	9645	11586															
		150	6528	5017	8099	15016	7109	8181	20324	10097	12192																		
KSYHM 3500	S610	100	6137	4632	7413	5321	1817	1245	8144	3406	3378	10966	4995	5511	13955	6677	7770	16778	8266	9903	19601	9855	12036	22424	11444	14169	28236	14715	18561
		110	6137	4632	7413	7727	3171	3063	11142	5094	5644	14558	7016	8225	18175	9052	10958	21590	10974	13539	25006	12897	16121	28422	14819	18702	35454	18778	24016
		120	6137	4632	7413	10362	4654	5055	14427	6942	8126	18492	9230	11198	22796	11653	14450	26861	13941	17522	30926	16229	20594	34991	18517	23666	43360	23227	29990
		125	6137	4632	7413	11766	5444	6115	16176	7927	9448	20587	10410	12781	25257	13038	16310	29668	15521	19643	34079	18003	22976	38490	20486	26309			
		135	6137	4632	7413	14745	7121	8366	19889	10017	12254	25034	12913	16142	30481	15979	20258	35626	18874	24146	40771	21770	28033						
		145	6137	4632	7413	17953	8927	10791	23888	12267	15275	29823	15608	19760	36107	19145	24509												
		155	6137	4632	7413	21390	10861	13388	28172	14679	18513	34954	18496	23638															
		170	6137	4632	7413	26976	14005	17609	35134	18597	23774	43292	23189	29938															
	S782	100	7824	5944	9509							9279	3683	3415	12268	5365	5674	15091	6954	7807	17914	8543	9940	20737	10132	12073	26549	13403	16465
		110	7824	5944	9509				9455	3782	3548	12871	5704	6129	16488	7740	8862	19903	9662	11443	23319	11585	14025	26735	13507	16606	33767	17466	21920
		125	7824	5944	9509	10079	4132	4019	14489	6615	7352	18900	9098	10685	23570	11726	14214	27981	14209	17547	32392	16691	20880	36803	19174	24213			
		130	7824	5944	9509	11539	4955	5123	16310	7640	8728	21081	10325	12333	26132	13168	16150	30903	15853	19755	35673	18538	23360	40444	21224	26965			
		140	7824	5944	9509	14633	6696	7461	20166	9810	11642	25699	12924	15823	31557	16222	20250	37090	19336	24431									
		145	7824	5944	9509	16266	7615	8695	22201	10955	13179	28136	14296	17664	34420	17833	22413	40355	21174	26898									
		160	7824	5944	9509	21507	10565	12656	28734	14633	18116	35961	18700	23577	43612	23007	29359												
		170	7824	5944	9509	25289	12693	15513	33447	17285	21678	41605	21877	27842															
	S1057	100	10573	7888	12656													12342	5010	4660	15165	6599	6793	17988	8188	8926	23800	11459	13318
		115	10573	7888	12656							12046	4843	4436	15999	7068	7423	19732	9169	10245	23466	11271	13066	27199	13372	15887	34885	17698	21695
		125	10573	7888	12656				11740	4671	4205	16151	7154	7538	20821	9782	11067	25232	12265	14400	29643	14747	17733	34054	17230	21066			
		135	10573	7888	12656	10309	3865	3123	15453	6761	7011	20598	9657	10899	26045	12723	15015	31190	15618	18903	36335	18514	22790						
		140	10573	7888	12656	11884	4752	4314	17417	7866	8495	22950	10980	12676	28808	14278	17103	34341	17392	21284									
		150	10573	7888	12656	15207	6622	6825	21558	10197	11624	27910	13772	16424	34635	17557	21506	40986	21132	26305									
		160	10573	7888	12656	18758	8621	9509	25985	12689	14969	33212	16756	20430	40863	21063	26212												
		180	10573	7888	12656	26550	13006	15396	35696	18154	22307	44842	23302	29219															
KSYM 5000	S1130	110	11399	9741	17407										15919	6875	6349	19758	9210	9686	23596	11544	13024	27434	13879	16361	35336	18685	23233
		125	11399	9741	17407				13674	5509	4396	18630	8524	8706	23878	11716	13269	28834	14730	17579	33790	17745	21889	38747	20759	26199	48951	26966	35072
		140	11399	9741	17407	13835	5607	4536	20052	9389	9943	26270	13170	15349	32852	17174	21073	39069	20956	26480	45287	24737	31886	51504	28519	37292			
		150	11399	9741	17407	17569	7878	7783	24706	12219	13989	31843	16560	20195	39400	21157	26767	46537	25498	32973	53674	29839	39179						
		160	11399	9741	17407	21560	10306	11254	29680	15245	18315	37801	20184	25376	46399	25414	32853	54519	30353	39914									
		170	11399	9741	17407	25809	12890	14948	34976	18466	22920	44143	24042	30891	53849	29945	39332												
		190	11399	9741	17407	35078	18528	23009	46529	25493	32967	57980	32458	42924															
		200	11399	9741	17407	40099	21582	27375	52787	29300	38409																		
	S1390	110	13921	11351	19814													17236	7600	7279	21074	9934	10617	24912	12269	13954	32814	17075	20826
		125	13921	11351	19814							16108	6914	6299	21356	10106	10862	26312	13120	15172	31268	16135	19482	36225	19149	23792	46429	25356	32665
		140	13921	11351	19814				17530	7779	7536	23748	11560	12942	30330	15564	18666	36547	19346	24073	42765	23127	29479	48982	26909	34885			
		150	13921	11351	19814	15047	6268	5376	22184	10609	11582	29321	14950	17788	36878	19547	24360	44015	23888	30566	51152	28229	36772						
		160	13921	11351	19814	19038	8696	8847	27158	13635	15908	35279	18574	22969	43877	23804	30446	51997	28743	37507									
		170	13921	11351	19814	23287	11280	12541	32454	16856	20513	41621	22432	28484	51327	28335	36925												
		190	13921	11351	19814	32556	16918	20602	44007	23883	30560	55458	30848	40517															
		200	13921	11351	19814	37577	19972	24968	50265	27690	36002																		



Spring Return Symmetric Fail Close Torque

Spring Torque			Symmetric Fail Close						Pneumatic Stork Torques (Nm) At Operating Pressure																		
			3 bar / 43,5 PSI			4 bar / 58 PSI			5 bar / 72,5 PSI			5,5 bar / 80 PSI			6 bar / 87 PSI			7 bar / 101,5 PSI			8 bar / 116 PSI			9 bar / 130 PSI			
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	
KSYM 10000	S023	125	18080	14742	25732										22153 9729 9254			27109 12744 13564			32066 15758 17874			42270 21965 26747			
		140	18080	14742	25732				19589 8169 7024			26171 12173 12748			32388 15955 18155			38606 19736 23561			44823 23518 28967			57623 31303 40098			
		150	18080	14742	25732	18025 7218 5664			25162 11559 11870			32719 16156 18442			39856 20497 24648			46993 24838 30854			54130 29179 37061						
		160	18080	14742	25732	22999 10244 9990			31120 15183 17051			39718 20413 24528			47838 25352 31589			55958 30291 38651									
		170	18080	14742	25732	19128 7889 6623	28295 13465 14595	37462 19041 22566	47168 24944 31007	56335 30520 38978																	
		190	18080	14742	25732	28397 13527 14684	39848 20492 24642	51299 27457 34599																			
		220	18080	14742	25732	44233 23159 28455	59586 32497 41805																				
	S046	135	22236	18543	32750													30473 13516 13085			36254 17033 18112			48156 24272 28462			
		140	22236	18543	32750										28232 12154 11137			34450 15935 16543			40667 19717 21949			53467 27502 33080			
		150	22236	18543	32750							28563 12355 11424			35700 16696 17630			42837 21037 23836			49974 25378 30043			64668 34315 42820			
		160	22236	18543	32750				26964 11382 10033			35562 16612 17510			43682 21551 24571			51802 26490 31633			59923 31429 38694						
		170	22236	18543	32750	24139 9664 7577			33306 15240 15548			43012 21143 23989			52179 26719 31960			61346 32295 39932									
		190	22236	18543	32750	24241 9726 7666	35692 16691 17624	47143 23656 27581	59268 31031 38124																		
		220	22236	18543	32750	40077 19358 21437	55430 28696 34787	70782 38034 48137																			
	230	22236	18543	32750	45871 22882 26475	62651 33088 41066																					

25% Safety factor is recommended
35% For low temperature

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quifer@quiferactuators.com

Phone: +34 972 50 61 08



Double Acting Canted Torques

		Canted				Hydraulic Storke Torques (Nm) At Operating Pressure								
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke		52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar
KSYH 400														
Ø Air Cylinder	40	4000	207	0°	BTO	760	1008	1257	1505	1768	2017	2265	2514	3025
				45°	RTO	380	505	629	753	885	1009	1134	1258	1514
				90°	ETO	466	619	771	923	1085	1237	1390	1542	1856
				90°	BTC	204	271	337	404	475	541	608	675	812
				45°	RTC	166	221	275	330	387	442	496	550	662
				0°	ETC	332	441	550	659	774	882	991	1100	1324
	45	4000	207	0°	BTO	962	1276	1591	1905	2238	2552	2867	3181	3829
				45°	RTO	481	639	796	953	1120	1277	1435	1592	1916
				90°	ETO	590	783	976	1169	1373	1566	1759	1952	2349
				90°	BTC	328	435	542	649	763	870	977	1084	1305
				45°	RTC	267	355	442	530	622	710	797	885	1065
				0°	ETC	534	709	884	1058	1243	1418	1593	1767	2127
	50	4000	172	0°	BTO	1187	1576	1964	2352	2763	3151	3539	3928	
				45°	RTO	594	789	983	1177	1383	1577	1771	1966	
				90°	ETO	728	967	1205	1443	1695	1933	2171	2409	
				90°	BTC	466	619	771	923	1085	1237	1390	1542	
				45°	RTC	380	505	629	753	885	1009	1134	1258	
				0°	ETC	760	1008	1257	1505	1768	2017	2265	2514	
	55	4000	138	0°	BTO	1437	1906	2376	2846	3343	3813			
				45°	RTO	719	954	1189	1424	1673	1908			
				90°	ETO	881	1170	1458	1746	2051	2339			
				90°	BTC	619	822	1024	1226	1441	1643			
				45°	RTC	505	670	835	1001	1175	1341			
				0°	ETC	1009	1339	1669	1999	2349	2679			
	60	4000	121	0°	BTO	1710	2269	2828	3387	3979				
				45°	RTO	856	1136	1415	1695	1991				
				90°	ETO	1049	1392	1735	2078	2441				
				90°	BTC	787	1044	1301	1558	1831				
				45°	RTC	642	852	1061	1271	1493				
				0°	ETC	1282	1702	2121	2540	2984				
65	4000	103	0°	BTO	2007	2663	3319	3975						
			45°	RTO	1004	1333	1661	1989						
			90°	ETO	1231	1633	2036	2438						
			90°	BTC	969	1286	1602	1919						
			45°	RTC	790	1049	1307	1566						
			0°	ETC	1579	2096	2612	3128						
70	4000	86	0°	BTO	2327	3088	3849							
			45°	RTO	1165	1546	1926							
			90°	ETO	1428	1894	2361							
			90°	BTC	1165	1546	1928							
			45°	RTC	951	1262	1573							
			0°	ETC	1900	2521	3142							
75	4000	69	0°	BTO	2672	3545								
			45°	RTO	1337	1774								
			90°	ETO	1639	2175								
			90°	BTC	1377	1827								
			45°	RTC	1123	1490								
			0°	ETC	2244	2978								
75	4000	69	0°	BTO	3040	4034								
			45°	RTO	1521	2019								
			90°	ETO	1865	2474								
			90°	BTC	1603	2126								
			45°	RTC	1307	1735								
			0°	ETC	2612	3466								

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Double Acting Canted Torques

		Canted		Hydraulic Storke Torques (Nm) At Operating Pressure										
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar	
KSYH 900														
Ø Air Cylinder	55	9000	207	0°	BTO					4530	5166	5803	6439	7749
				45°	RTO					2132	2432	2732	3031	3648
				90°	ETO					2567	2928	3288	3649	4392
				90°	BTC					1209	1379	1549	1719	2069
				45°	RTC					1005	1146	1287	1428	1718
				0°	ETC					2134	2434	2733	3033	3651
	60	9000	172	0°	BTO				4589	5391	6148	6906	7663	
				45°	RTO				2160	2538	2894	3251	3607	
				90°	ETO				2601	3055	3484	3914	4343	
				90°	BTC				1445	1697	1936	2174	2413	
				45°	RTC				1200	1410	1608	1806	2004	
				0°	ETC				2549	2995	3416	3836	4257	
	65	9000	172	0°	BTO			4497	5386	6327	7216	8105	8993	
				45°	RTO			2117	2535	2978	3397	3815	4234	
				90°	ETO			2548	3052	3585	4089	4593	5097	
				90°	BTC			1583	1896	2228	2541	2854	3167	
				45°	RTC			1315	1575	1850	2110	2370	2630	
				0°	ETC			2794	3346	3931	4483	5035	5588	
	70	9000	138	0°	BTO	3153	4184	5215	6246	7338	8368			
				45°	RTO	1484	1970	2455	2940	3454	3939			
				90°	ETO	1787	2371	2955	3540	4158	4743			
				90°	BTC	1204	1597	1990	2384	2800	3194			
				45°	RTC	1000	1327	1653	1980	2326	2653			
				0°	ETC	2124	2818	3512	4207	4942	5636			
	75	9000	121	0°	BTO	3620	4803	5987	7170	8423				
				45°	RTO	1704	2261	2818	3375	3965				
				90°	ETO	2051	2722	3393	4063	4774				
				90°	BTC	1468	1948	2428	2908	3416				
				45°	RTC	1219	1618	2017	2415	2837				
				0°	ETC	2590	3437	4284	5131	6027				
	80	9000	103	0°	BTO	4119	5465	6812	8158					
				45°	RTO	1939	2573	3206	3840					
				90°	ETO	2334	3097	3860	4623					
				90°	BTC	1751	2323	2895	3467					
				45°	RTC	1454	1929	2405	2880					
				0°	ETC	3089	4099	5109	6119					
		9000	86	0°	BTO	4650	6170	7690						
				45°	RTO	2189	2904	3620						
				90°	ETO	2635	3496	4358						
				90°	BTC	2051	2722	3393						
				45°	RTC	1704	2261	2818						
				0°	ETC	3620	4803	5987						
	85	9000	86	0°	BTO	5213	6917	8621						
				45°	RTO	2454	3256	4058						
				90°	ETO	2954	3920	4886						
				90°	BTC	2371	3146	3921						
				45°	RTC	1969	2613	3257						
				0°	ETC	4183	5551	6918						
	90	9000	69	0°	BTO	6435	8539							
				45°	RTO	3029	4020							
				90°	ETO	3647	4839							
				90°	BTC	3064	4065							
				45°	RTC	2545	3377							
				0°	ETC	5406	7173							

25% Safety factor is recommended
35% For low temperature

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Double Acting Canted Torques

		Canted		Hydraulic Storke Torques (Nm) At Operating Pressure										
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar	
KSYH 1600														
Ø Air Cylinder	65	16000	207	0°	BTO						9025	10137	11248	13537
				45°	RTO						4461	5011	5560	6692
				90°	ETO						5431	6100	6769	8146
				90°	BTC						2469	2774	3078	3704
				45°	RTC						2028	2278	2528	3042
				0°	ETC						4103	4609	5114	6155
	75	16000	172	0°	BTO				8968	10535	12015	13496	14976	
				45°	RTO				4433	5208	5939	6671	7403	
				90°	ETO				5397	6340	7231	8121	9012	
				90°	BTC				3186	3743	4269	4795	5321	
				45°	RTC				2617	3075	3507	3939	4370	
				0°	ETC				5295	6220	7094	7968	8842	
	80	16000	155	0°	BTO			8519	10204	11987	13671	15355		
				45°	RTO			4211	5044	5925	6758	7590		
				90°	ETO			5127	6140	7213	8227	9240		
				90°	BTC			3281	3930	4617	5265	5914		
				45°	RTC			2695	3228	3792	4325	4858		
				0°	ETC			5452	6530	7672	8749	9827		
	85	16000	138	0°	BTO			9618	11519	13532	15433			
				45°	RTO			4754	5694	6689	7629			
				90°	ETO			5788	6932	8143	9287			
				90°	BTC			3942	4721	5546	6326			
				45°	RTC			3238	3878	4556	5196			
				0°	ETC			6551	7846	9217	10512			
	90	16000	121	0°	BTO	6520	8651	10782	12914	15171				
				45°	RTO	3223	4276	5330	6383	7499				
				90°	ETO	3923	5206	6489	7771	9129				
				90°	BTC	2807	3725	4643	5561	6533				
				45°	RTC	2306	3060	3814	4568	5366				
				0°	ETC	4665	6190	7715	9241	10855				
	95	16000	103	0°	BTO	7264	9639	12014	14389					
				45°	RTO	3591	4765	5939	7112					
				90°	ETO	4371	5801	7230	8659					
				90°	BTC	3255	4320	5384	6448					
				45°	RTC	2674	3548	4422	5297					
				0°	ETC	5410	7178	8947	10715					
	105	16000	86	0°	BTO	8874	11775	14676						
				45°	RTO	4386	5820	7255						
				90°	ETO	5340	7086	8832						
				90°	BTC	4224	5605	6986						
				45°	RTC	3470	4604	5738						
				0°	ETC	7019	9314	11609						
	115	16000	69	0°	BTO	10645	14125							
				45°	RTO	5262	6982							
				90°	ETO	6406	8500							
				90°	BTC	5290	7019							
				45°	RTC	4345	5766							
				0°	ETC	8790	11664							
	130	16000	52	0°	BTO	13603								
				45°	RTO	6724								
				90°	ETO	8186								
				90°	BTC	7070								
				45°	RTC	5807								
				0°	ETC	11748								

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Double Acting Canted Torques

		Canted				Hydraulic Storke Torques (Nm) At Operating Pressure								
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar	
KSYH 3500														
Ø Air Cylinder	90	35000	207	0°	BTO				15741	18492	21090	23688	26286	31635
				45°	RTO				7603	8931	10186	11441	12696	15279
				90°	ETO				9203	10811	12330	13849	15368	18496
				90°	BTC				6585	7736	8823	9910	10997	13235
				45°	RTC				5440	6391	7289	8187	9085	10933
				0°	ETC				11264	13232	15091	16950	18809	22637
	100	35000	172	0°	BTO			16226	19434	22830	26037	29245	32452	
				45°	RTO			7837	9386	11027	12576	14125	15674	
				90°	ETO			9487	11362	13348	15223	17098	18973	
				90°	BTC			7301	8744	10272	11715	13159	14602	
				45°	RTC			6031	7224	8486	9678	10871	12063	
				0°	ETC			12488	14956	17570	20038	22507	24975	
	110	35000	155	0°	BTO		15753	19634	23515	27624	31505	35386		
				45°	RTO		7608	9483	11357	13342	15217	17091		
				90°	ETO		9210	11479	13748	16150	18420	20689		
				90°	BTC		7456	9293	11130	13075	14912	16749		
				45°	RTC		6160	7677	9195	10802	12319	13837		
				0°	ETC		12753	15895	19037	22364	25506	28648		
	120	35000	121	0°	BTO	14128	18747	23366	27985	32875				
				45°	RTO	6824	9055	11285	13516	15878				
				90°	ETO	8260	10960	13661	16361	19220				
				90°	BTC	6938	9207	11475	13743	16145				
				45°	RTC	5732	7606	9480	11354	13338				
				0°	ETC	11868	15747	19627	23507	27615				
	130	35000	103	0°	BTO	16581	22002	27422	32843					
				45°	RTO	8008	10626	13245	15863					
				90°	ETO	9694	12863	16032	19202					
				90°	BTC	8372	11110	13847	16584					
				45°	RTC	6917	9178	11439	13700					
				0°	ETC	14320	19002	23684	28365					
	140	35000	86	0°	BTO	19230	25517	31803						
				45°	RTO	9288	12324	15361						
				90°	ETO	11243	14918	18594						
				90°	BTC	9921	13165	16408						
				45°	RTC	8196	10875	13555						
				0°	ETC	16969	22517	28065						
	150	35000	86	0°	BTO	22075	29292	36509						
				45°	RTO	10662	14148	17633						
				90°	ETO	12906	17126	21345						
				90°	BTC	11585	15372	19159						
				45°	RTC	9570	12699	15828						
				0°	ETC	19815	26293	32770						
	160	35000	69	0°	BTO	25117	33328							
				45°	RTO	12131	16097							
				90°	ETO	14684	19485							
				90°	BTC	13363	17731							
				45°	RTC	11039	14648							
				0°	ETC	22856	30328							

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Double Acting Canted Torques

		Canted				Hydraulic Storke Torques (Nm) At Operating Pressure								
		Max. Operating Torque	Max. Allowable Pressure	Position of Stroke	52 bar	69 bar	86 bar	103 bar	121 bar	138 bar	155 bar	172 bar	207 bar	
KSYH 5000														
Ø Air Cylinder	95	50000	207	0°	BTO						28651	32181	35711	42977
				45°	RTO						13534	15201	16868	20300
				90°	ETO						16492	18523	20555	24737
				90°	BTC						9239	10377	11515	13858
				45°	RTC						7582	8516	9450	11373
				0°	ETC						16051	18028	20006	24077
	110	50000	172	0°	BTO					33681	38414	43146	47878	
				45°	RTO					15910	18145	20380	22615	
				90°	ETO					19387	22111	24834	27558	
				90°	BTC					13028	14858	16688	18519	
				45°	RTC					10691	12193	13695	15197	
				0°	ETC					22633	25813	28993	32173	
	120	50000	138	0°	BTO				34121	40084	45715			
				45°	RTO				16117	18934	21594			
				90°	ETO				19640	23072	26314			
				90°	BTC				14227	16713	19061			
				45°	RTC				11675	13715	15642			
				0°	ETC				24716	29036	33115			
	130	50000	121	0°	BTO			33435	40045	47043				
				45°	RTO			15793	18915	22221				
				90°	ETO			19245	23049	27078				
				90°	BTC			14725	17636	20718				
				45°	RTC			12084	14473	17002				
				0°	ETC			25583	30640	35995				
	140	50000	103	0°	BTO		31112	38777	46442					
				45°	RTO		14696	18316	21937					
				90°	ETO		17908	22320	26732					
				90°	BTC		14281	17800	21319					
				45°	RTC		11720	14607	17495					
				0°	ETC		24812	30925	37038					
	150	50000	86	0°	BTO	26916	35715	44514						
				45°	RTO	12714	16870	21026						
				90°	ETO	15493	20557	25622						
				90°	BTC	12760	16931	21103						
				45°	RTC	10471	13894	17317						
				0°	ETC	22168	29415	36662						
	160	50000	86	0°	BTO	30624	40636	50648						
				45°	RTO	14465	19194	23923						
				90°	ETO	17627	23390	29153						
				90°	BTC	14894	19763	24633						
				45°	RTC	12223	16219	20214						
				0°	ETC	25876	34336	42795						
	170	50000	69	0°	BTO	34572	45874							
				45°	RTO	16330	21669							
				90°	ETO	19899	26405							
				90°	BTC	17166	22779							
				45°	RTC	14087	18693							
				0°	ETC	29824	39574							

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Spring Return Canted Fail Close Torques

			Spring Torque			Canted Fail Close						Hydraulic Storke Torques (Nm) At Operating Pressure																	
						69 bar			86 bar			103 bar			121 bar			138 bar			155 bar			172 bar			207 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 400	S110	45	1302	856	1214								936	264	159	1250	421	352	1565	579	545	1879	736	738	2527	1060	1135		
		50	1302	856	1214					1050	321	244	1461	527	481	1849	721	719	2237	915	957	2626	1110	1195	3425	1510	1686		
		55	1302	856	1214				1074	333	244	1544	568	532	2041	817	837	2511	1052	1125	2981	1287	1413	3450	1523	1701	4417	2007	2295
		60	1302	856	1214				1526	559	521	2085	839	864	2677	1135	1227	3236	1415	1570	3795	1695	1913						
		65	1302	856	1214	1361	477	419	2017	805	822	2673	1133	1224	3368	1481	1651	4024	1809	2053									
		70	1302	856	1214	1786	690	680	2547	1070	1147	3308	1451	1614	4114	1854	2108												
		75	1302	856	1214	2243	918	961	3117	1355	1497	3990	1793	2032															
		80	1302	856	1214	2732	1163	1260	3725	1660	1870	4719	2157	2480															
	S160	50	1841	1211	1718							1005	213	28	1502	462	333	1310	366	215	1698	560	453	2087	755	691	2886	1155	1182
		55	1841	1211	1718							1546	484	360	2138	780	723	1972	697	621	2442	932	909	2911	1168	1197	3878	1652	1791
		60	1841	1211	1718				987	204	17	2134	778	720	2829	1126	1147	2697	1060	1066	3256	1340	1409	3815	1620	1752	4966	2196	2458
		65	1841	1211	1718				1478	450	318	2134	778	720	2829	1126	1147	3485	1454	1549	4141	1783	1951						
		70	1841	1211	1718	1247	335	176	2008	715	643	2769	1096	1110	3575	1499	1604	4335	1880	2071									
		75	1841	1211	1718	1704	563	457	2578	1000	993	3451	1438	1528	4376	1900	2096												
		80	1841	1211	1718	2193	808	756	3186	1305	1366	4180	1802	1976															
		85	1841	1211	1718	2713	1068	1075	3834	1629	1764	4956	2191	2452															
	S220	55	2617	1718	2475													1921	553	309	2480	833	652	3039	1113	995	4190	1689	1701
		60	2617	1718	2475																2480	833	652	3039	1113	995	4190	1689	1701
		65	2617	1718	2475										2053	619	390	2709	947	792	3365	1276	1194	4021	1604	1597			
		70	2617	1718	2475							1993	589	353	2799	992	847	3559	1373	1314	4320	1754	1781						
		75	2617	1718	2475				1802	493	236	2675	931	771	3600	1393	1339	4473	1831	1874									
		80	2617	1718	2475				2410	798	609	3404	1295	1219	4456	1822	1864												
		85	2617	1718	2475	1937	561	318	3058	1122	1007	4180	1684	1695															
		95	2617	1718	2475	3071	1129	1014	4472	1830	1874																		
KSYHM 900	S140	60	1677	1082	1505	1397	365	237	2155	722	666	2912	1078	1096	3714	1456	1550	4471	1812	1979	5229	2169	2409	5986	2525	2838	7545	3259	3721
		65	1677	1082	1505	1931	616	540	2820	1035	1043	3709	1453	1547	4650	1896	2080	5539	2315	2584	6428	2733	3088	7316	3152	3592	9146	4013	4629
		70	1677	1082	1505	2507	888	866	3538	1373	1450	4569	1858	2035	5661	2372	2653	6691	2857	3238	7722	3343	3822	8753	3828	4406			
		75	1677	1082	1505	3126	1179	1217	4310	1736	1888	5493	2293	2558	6746	2883	3269	7930	3440	3939	9113	3997	4610						
		80	1677	1082	1505	3788	1491	1592	5135	2124	2355	6481	2758	3118	7907	3429	3926	9253	4063	4689									
		85	1677	1082	1505	4493	1822	1991	6013	2538	2853	7533	3253	3714	9142	4011	4626												
		90	1677	1082	1505	5240	2174	2415	6944	2976	3381	8648	3778	4346															
		100	1677	1082	1505	6862	2938	3334	8966	3928	4527																		
	S200	65	2421	1555	2160				2076	562	388	2965	980	892	3906	1423	1425	4795	1842	1929	5684	2260	2433	6572	2679	2937	8402	3540	3974
		70	2421	1555	2160	1763	415	211	2794	900	795	3825	1385	1380	4917	1899	1998	5947	2384	2583	6978	2870	3167	8009	3355	3751	10132	4354	4954
		75	2421	1555	2160	2382	706	562	3566	1263	1233	4749	1820	1903	6002	2410	2614	7186	2967	3284	8369	3524	3955						
		80	2421	1555	2160	3044	1018	937	4391	1651	1700	5737	2285	2463	7163	2956	3271	8509	3590	4034									
		85	2421	1555	2160	3749	1349	1336	5269	2065	2198	6789	2780	3059	8398	3538	3971	9918	4254	4833									
		90	2421	1555	2160	4496	1701	1760	6200	2503	2726	7904	3305	3691	9708	4155	4714												
		95	2421	1555	2160	5286	2073	2207	7184	2967	3284	9083	3860	4360															
		100	2421	1555	2160	6118	2465	2679	8222	3455	3872	10326	4446	5064															
S290	65	3323	2184	2992										3004	794	593	3893	1213	1097	4782	1631	1601	5670	2050	2105	7500	2911	3142	
	70	3323	2184	2992							2923	756	548	4015	1270	1166	5045	1755	1751	6076	2241	2335	7107	2726	2919	9230	3725	4122	
	75	3323	2184	2992				2664	634	401	3847	1191	1071	5100	1781	1782	6284	2338	2452	7467	2895	3123	8650	3452	3794				
	85	3323	2184	2992	2847	720	504	4367	1436	1366	5887	2151	2227	7496	2909	3139	9016	3625	4001										
	90	3323	2184	2992	3594	1072	928	5298	1874	1894	7002	2676	2859	8806	3526	3882													
	95	3323	2184	2992	4384	1444	1375	6282	2338	2452	8181	3231	3528	10192	4178	4667													
	100	3323	2184	2992	5216	1836	1847	7320	2826	3040	9424	3817	4232																
	105	3323	2184	2992	6092	2248	2343	8411	3340	3658																			
S390	70	4558	2947	4104													3810	992	639	4841	1478	1223	5872	1963	1807	7995	2962	3010	
	75	4558	2947	4104										3865	1018	670	5049	1575	1340	6232	2132	2011	7415	2689	2682	9852	3836	4062	
	80	4558	2947	4104							3600	893	519	5026	1564	1327	6372	2198	2090	7719	2832	2853							
	85	4558	2947	4104				3132	673	254	4652	1388	1115	6261	2146	2027	7781	2862	2889	9301	3577	3750							
	90	4558	2947	4104				4063	1111	782	5767	1913	1747	7571	2763	2770	9276	3565	3736										
	95	4558	2947	4104	3149	681	263	5047	1575	1340	6946	2468</																	



Spring Return Canted Fail Close Torques

			Spring Torque			Canted Fail Close						Hydraulic Storke Torques (Nm) At Operating Pressure																	
						69 bar			86 bar			103 bar			121 bar			138 bar			155 bar			172 bar			207 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 1600	S450	75	5108	3253	4496							3860	1180	901	5427	1955	1844	6907	2686	2735	8388	3418	3625	9868	4150	4516	12915	5656	6350
		80	5108	3253	4496				3411	958	631	5096	1791	1644	6879	2672	2717	8563	3505	3731	10247	4337	4744	11931	5169	5758	15398	6883	7844
		85	5108	3253	4496	2609	561	184	4510	1501	1292	6411	2441	2436	8424	3436	3647	10325	4376	4791	12226	5315	5935	14127	6255	7079			
		90	5108	3253	4496	3543	1023	710	5674	2077	1993	7806	3130	3275	10063	4246	4633	12194	5300	5916	14326	6353	7199	16457	7407	8481			
		100	5108	3253	4496	5572	2026	1931	8204	3327	3515	10835	4628	5098	13621	6005	6775	16253	7306	8358									
		105	5108	3253	4496	6667	2567	2590	9568	4002	4336	12469	5436	6082	15541	6954	7930												
		110	5108	3253	4496	7815	3135	3281	10999	4709	5197	14183	6283	7113															
		120	5108	3253	4496	10272	4349	4759	14061	6222	7039	17850	8095	9320															
	S510	75	5799	4111	5932										4736	1097	408	6216	1828	1299	7697	2560	2189	9177	3292	3080	12224	4798	4914
		80	5799	4111	5932							4405	933	208	6188	1814	1281	7872	2647	2295	9556	3479	3308	11240	4311	4322	14707	6025	6408
		85	5799	4111	5932							5720	1583	1000	7733	2578	2211	9634	3518	3355	11535	4457	4499	13436	5397	5643	17351	7332	7999
		95	5799	4111	5932				6215	1828	1298	8590	3001	2727	11104	4244	4240	13479	5418	5669	15854	6592	7098						
		100	5799	4111	5932	4881	1168	495	7513	2469	2079	10144	3770	3662	12930	5147	5339	15562	6448	6922									
		105	5799	4111	5932	5976	1709	1154	8877	3144	2900	11778	4578	4646	14850	6096	6494												
		110	5799	4111	5932	7124	2277	1845	10308	3851	3761	13492	5425	5677															
		120	5799	4111	5932	9581	3491	3323	13370	5364	5603	17159	7237	7884															
	S650	80	7366	5113	7319													6305	1645	908	7989	2477	1921	9673	3309	2935	13140	5023	5021
		85	7366	5113	7319										6166	1576	824	8067	2516	1968	9968	3455	3112	11869	4395	4256	15784	6330	6612
		90	7366	5113	7319							5548	1270	452	7805	2386	1810	9936	3440	3093	12068	4493	4376	14199	5547	5658	18587	7716	8299
		95	7366	5113	7319							7023	1999	1340	9537	3242	2853	11912	4416	4282	14287	5590	5711	1662	6764	7140			
		100	7366	5113	7319				5946	1467	692	8577	2768	2275	11363	4145	3952	13995	5446	5535	16626	6746	7119						
		110	7366	5113	7319				8741	2849	2374	11925	4423	4290	15296	6089	6319												
		120	7366	5113	7319	8014	2489	1936	11803	4362	4216	15592	6235	6497															
		130	7366	5113	7319	10684	3809	3543	15131	6007	6219																		
KSYHM 3500	S610	100	7060	4716	6631				9166	3121	2856	12374	4670	4731	15770	6311	6717	18977	7860	8592	22185	9409	10467	25392	10958	12342	31996	14148	16203
		110	7060	4716	6631	8693	2892	2579	12574	4767	4848	16455	6641	7117	20564	8626	9519	24445	10501	11789	28326	12375	14058	32207	14250	16327	40198	18109	20998
		120	7060	4716	6631	11687	4339	4329	16306	6569	7030	20925	8800	9730	25815	11162	12589	30434	13393	15290	35053	15624	17990						
		125	7060	4716	6631	13282	5109	5262	18293	7529	8192	23305	9950	11122	28612	12513	14224	33623	14934	17155									
		135	7060	4716	6631	16667	6744	7241	22512	9567	10658	28358	12390	14076	34547	15380	17695												
		145	7060	4716	6631	20312	8504	9372	27056	11761	13315	33799	15019	17257															
		155	7060	4716	6631	24217	10391	11655	31923	14112	16161	39629	17834	20666															
		170	7060	4716	6631	30564	13456	15366	39834	17933	20785																		
	S782	100	9068	6051	8505				7158	1786	982	10366	3335	2857	13762	4976	4843	16969	6525	6718	20177	8074	8593	23384	9623	10468	29988	12813	14329
		110	9068	6051	8505	6685	1557	705	10566	3432	2974	14447	5306	5243	18556	7291	7645	22437	9166	9915	26318	11040	12184	30199	12915	14453	38190	16774	19124
		125	9068	6051	8505	11274	3774	3388	16285	6194	6318	21297	8615	9248	26604	11178	12350	31615	13599	15281	36627	16019	18211						
		130	9068	6051	8505	12934	4575	4358	18354	7194	7527	23775	9812	10697	29515	12584	14052	34935	15202	17221									
		140	9068	6051	8505	16449	6273	6413	22735	9310	10089	29022	12346	13764	35679	15561	17656												
		145	9068	6051	8505	18304	7169	7498	25048	10426	11441	31791	13684	15383	38932	17132	19558												
		160	9068	6051	8505	24260	10046	10980	32471	14012	15781	40682	17978	20582															
		170	9068	6051	8505	28556	12121	13492	37826	16598	18911																		
S1057	100	11963	8036	11323							7471	1350	39	10867	2991	2025	14074	4540	3900	17282	6089	5775	20489	7638	7650	27093	10828	11511	
	115	11963	8036	11323				9496	2328	1223	13738	4377	3703	18230	6547	6329	22471	8595	8809	26713	10644	11289	30955	12693	13769	39689	16911	18875	
	125	11963	8036	11323	8379	1789	570	13390	4209	3500	18402	6630	6430	23709	9193	9532	28720	11614	12463	33732	14034	15393							
	135	11963	8036	11323	11764	3424	2549	17609	6247	5966	23455	9070	9384	29644	12060	13003	35490	14883	16420										
	140	11963	8036	11323	13554	4288	3595	19840	7325	7271	26127	10361	10946	32784	13576	14838													
	150	11963	8036	11323	17329	6112	5803	24546	9597	10022	31763	13083	14241	39404	16774	18709													
	160	11963	8036	11323	21365	8061	8162	29576	12027	12963																			
	180	11963	8036	11323	30218	12337	13338	40610	17356	19414																			

25% Safety factor is recommended
35% For low temperature

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Spring Return Canted Fail Close Torques

			Spring Torque			Canted Fail Close						Hydraulic Stork Torques (Nm) At Operating Pressure																	
						69 bar			86 bar			103 bar			121 bar			138 bar			155 bar			172 bar			207 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 5000	S110	100	13424	9447	13915								14412	3701	2107	18323	5549	4358	22234	7396	6609	26144	9243	8860	34196	13046	13495		
		110	13424	9447	13915						15247	4096	2588	20257	6463	5472	24990	8698	8196	29722	10933	10919	34454	13168	13643	44196	17770	19251	
		125	13424	9447	13915	11378	2268	361	17489	5155	3878	23600	8041	7396	30070	11097	11120	36180	13984	14637	42291	16870	18154	48402	19756	21672			
		140	13424	9447	13915	17688	5249	3993	25353	8869	8405	33018	12490	12817	41134	16324	17489	48800	19944	21901									
		150	13424	9447	13915	22291	7423	6642	31090	11579	11707	39890	15736	16772	49207	20137	22135												
		160	13424	9447	13915	27212	9747	9475	37224	14476	15238	47235	19206	21000															
		170	13424	9447	13915	32450	12222	12490	43752	17560	18995	55055	22899	25501															
		190	13424	9447	13915	43879	17620	19068	57997	24289	27195																		
	S140	105	17528	11494	16481												17473	5039	3665	21785	7075	6147	26096	9112	8629	34973	13305	13738	
		120	17528	11494	16481							16593	4623	3159	22556	7440	6591	28187	10100	9833	33819	12760	13074	39451	15420	16316	51045	20897	22989
		130	17528	11494	16481				15907	4299	2764	22517	7421	6568	29515	10727	10597	36124	13849	14401	42733	16971	18205	49343	20092	22009			
		140	17528	11494	16481	13584	3202	1427	21249	6822	5839	28914	10443	10251	37030	14277	14923	44696	17897	19335	52361	21518	23747						
		150	17528	11494	16481	18187	5376	4076	26986	9532	9141	35786	13689	14206	45103	18090	19569	53902	22246	24634									
		160	17528	11494	16481	23108	7700	6909	33120	12429	12672	43131	17159	18434	53732	22166	24536												
		170	17528	11494	16481	28346	10175	9924	39648	15513	16429	50951	20852	22935															
		190	17528	11494	16481	39775	15573	16502	53893	22242	24629																		
	S200	115	22764	14298	21405												19221	5534	2761	24393	7977	5738	29565	10420	8715	40214	15450	14845	
		125	22764	14298	21405										20730	6246	3630	26840	9133	7147	32951	12019	10664	39062	14905	14182	51642	20848	21423
		140	22764	14298	21405				16013	4018	915	23678	7639	5327	31794	11473	9999	39460	15093	14411	47125	18714	18823						
		150	22764	14298	21405				21750	6728	4217	30550	10885	9282	39867	15286	14645	48666	19442	19710									
		160	22764	14298	21405	1782	4896	1985	27884	9625	7748	37895	14355	13510	48496	19362	19612												
		170	22764	14298	21405	23110	7371	5000	34412	12709	11505	45715	18048	18011	57682	23701	24899												
		190	22764	14298	21405	34539	12769	11578	48657	19438	19705																		
	S290	115	28070	18844	27269																	24259	5874	2851	34908	10904	8981		
		125	28070	18844	27269																27645	7473	4800	33756	10359	8318	46336	16302	15559
		130	28070	18844	27269													25582	6499	3613	32191	9621	7417	38801	12742	11221	52408	19170	19054
		140	28070	18844	27269										26488	6927	4135	34154	10547	8547	41819	14168	12959	49484	17789	17371			
		150	28070	18844	27269							25244	6339	3418	34561	10740	8781	43360	14896	13846	52160	19053	18911						
		160	28070	18844	27269				22578	5079	1884	32589	9809	7646	43190	14816	13748	53202	19545	19511									
		170	28070	18844	27269	17804	2825	-864	29106	8163	5641	40409	13502	12147	52376	19155	19035												
		190	28070	18844	27269	29233	8223	5714	43351	14892	13841	57469	21561	21967															

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Spring Return Symetric Fail Open Torques

			Spring Torque			Symetric Fail Open						Hydraulic Storke Torques (Nm) At Operating Pressure																	
												69 bar			86 bar			103 bar			121 bar			138 bar			155 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 100	S023	40	234	181	363	312	151	183	447	232	318	581	314	452	724	401	595	859	482	730	993	564	864	1128	646	999	1405	814	1276
		45	234	181	363	457	239	328	628	342	499	798	446	669	978	555	849	1149	659	1020	1319	762	1190	1489	865	1360	1840	1078	1711
		50	234	181	363	620	337	491	830	465	701	1040	593	911	1263	728	1134	1473	855	1344	1683	983	1554						
		55	234	181	363	799	446	670	1053	601	924	1308	755	1179	1577	919	1448	1832	1073	1703									
		60	234	181	363	995	565	866	1298	749	1169	1601	933	1472															
		65	234	181	363	1208	695	1079	1564	911	1435																		
		70	234	181	363	1439	835	1310	1851	1085	1722																		
	S046	40	460	333	666							425	203	219	580	296	374	726	385	520	872	473	666	1018	562	812	1319	744	1113
		45	460	333	666	291	121	85	476	233	270	660	345	454	856	464	650	1041	576	835	1226	688	1020	1411	800	1205	1792	1030	1586
		50	460	333	666	467	228	261	695	366	489	923	504	717	1165	651	959	1393	789	1187	1622	927	1416						
		55	460	333	666	661	346	455	938	513	732	1214	680	1008	1506	857	1300	1783	1024	1577									
		60	460	333	666	874	475	668	1203	674	997	1532	873	1326	1880	1083	1674												
		65	460	333	666	1106	615	900	1492	848	1286	1878	1082	1672															
		70	460	333	666	1356	766	1150	1804	1037	1598																		
	S078	40	782	568	1144										534	229	172	719	341	357	550	238	188	696	327	334	997	509	635
		45	782	568	1144										843	416	481	1071	554	709	904	453	542	1089	565	727	1470	795	1108
		50	782	568	1144							601	269	239	892	445	530	1184	622	822	1461	789	1099	1300	692	938	1528	830	1166
		55	782	568	1144				616	278	254	881	439	519	1184	622	822	1461	789	1099	1737	957	1375						
		60	782	568	1144	552	240	190	881	439	519	1210	638	848	1558	848	1196	1887	1047	1525									
		65	782	568	1144	784	380	422	1170	613	808	1556	847	1194															
		70	782	568	1144	1034	531	672	1482	802	1120																		
		75	782	568	1144	1303	694	941	1817	1005	1455																		
KSYHM 400	S110	50	888	854	1775										1010	560	737	1277	758	1089	1543	957	1442	1810	1155	1795	2359	1564	2522
		55	888	854	1775							1067	602	812	1408	856	1264	1731	1097	1691	2054	1337	2118	2376	1577	2545	3041	2072	3424
		60	888	854	1775				1054	593	795	1438	879	1304	1845	1182	1842	2229	1468	2350	2613	1754	2858	2997	2040	3366	3787	2628	4412
		65	888	854	1775	941	508	645	1392	844	1242	1842	1180	1838	2319	1535	2470	2770	1871	3066	3221	2206	3662	3671	2542	4259			
		70	888	854	1775	1233	726	1032	1756	1115	1724	2278	1505	2415	2832	1917	3148	3354	2306	3839	3877	2695	4531						
		75	888	854	1775	1547	960	1447	2147	1407	2241	2747	1853	3035	3382	2327	3876	3982	2774	4670									
		80	888	854	1775	1883	1210	1891	2565	1718	2795	3248	2227	3698	3971	2765	4655												
		90	888	854	1775	2619	1758	2865	3482	2401	4009	4346	3045	5152															
	S160	55	1256	1209	2514										1040	501	525	1363	742	952	1686	982	1379	2008	1222	1806	2673	1717	2685
		60	1256	1209	2514							1070	524	565	1477	827	1103	1861	1113	1611	2245	1399	2119	2629	1685	2627	3419	2273	3673
		65	1256	1209	2514				1024	489	503	1474	825	1099	1951	1180	1731	2402	1516	2327	2853	1851	2923	3303	2187	3520	4231	2878	4747
		70	1256	1209	2514	865	371	293	1388	760	985	1910	1150	1676	2464	1562	2409	2986	1951	3100	3509	2340	3792	4032	2730	4483	5108	3531	5907
		75	1256	1209	2514	1179	605	708	1779	1052	1502	2379	1498	2296	3014	1972	3137	3614	2419	3931	4214	2865	4725						
		80	1256	1209	2514	1515	855	1152	2197	1363	2056	2880	1872	2959	3603	2410	3916	4285	2918	4819									
		85	1256	1209	2514	1872	1121	1625	2642	1695	2645	3413	2269	3665	4229	2876	4744												
		90	1256	1209	2514	2251	1403	2126	3114	2046	3270	3978	2690	4413															
	S220	60	1787	1715	3563										1420	674	682	1330	607	562	1714	893	1070	2098	1179	1578	2888	1767	2624
		65	1787	1715	3563										1871	1010	1278	2322	1345	1874	2772	1681	2471	3700	2372	3698			
		70	1787	1715	3563							1379	644	627	1933	1056	1360	2455	1445	2051	2978	1834	2743	3501	2224	3434	4577	3025	4858
75		1787	1715	3563				1248	546	453	1848	992	1247	2483	1466	2088	3083	1913	2882	3683	2359	3676	4283	2806	4470				
80		1787	1715	3563	984	349	103	1666	857	1007	2349	1366	1910	3072	1904	2867	3754	2412	3770	4437	2921	4673							
85		1787	1715	3563	1341	615	576	2111	1189	1596	2882	1763	2616	3698	2370	3695	4468	2944	4715										
95		1787	1715	3563	2120	1195	1607	3083	1912	2881	4045	2629	4155	5064	3388	5504													
105		1787	1715	3563	2986	1840	2753	4162	2716	4309																			



Spring Return Symetric Fail Open Torques

			Spring Torque			Symetric Fail Open						Hydraulic Storke Torques (Nm) At Operating Pressure																	
												69 bar			86 bar			103 bar			121 bar			138 bar			155 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 900	S140	65	1078	1004	2250	1274	748	862	1853	1179	1629	2432	1611	2395	3046	2068	3207	3625	2499	3974	4205	2931	4741	4784	3362	5507	5977	4251	7086
		70	1078	1004	2250	1649	1027	1359	2321	1528	2248	2993	2028	3138	3705	2558	4079	4377	3059	4968	5049	3559	5858	5720	4060	6747	7104	5090	8577
		75	1078	1004	2250	2053	1328	1893	2824	1903	2914	3596	2477	3935	4412	3085	5016	5184	3660	6036	5955	4234	7057	6726	4809	8078	8314	5992	10179
		80	1078	1004	2250	2484	1649	2464	3362	2303	3625	4239	2957	4787	5169	3649	6017	6046	4303	7178	6924	4956	8339	7802	5610	9501			
		85	1078	1004	2250	2943	1991	3072	3934	2729	4383	4925	3467	5694	5974	4249	7082	6965	4987	8393	7955	5725	9704						
		90	1078	1004	2250	3430	2354	3716	4541	3181	5186	5652	4009	6656	6828	4885	8212	7939	5712	9682									
		100	1078	1004	2250	4488	3142	5116	5859	4163	6930	7231	5185	8745	8682	6266	10667												
		110	1078	1004	2250	5657	4012	6662	7316	5248	8858	8975	6484	11054															
	S200	70	1557	1444	3230				1842	1088	1268	2514	1588	2158	3226	2118	3099	3898	2619	3988	4570	3119	4878	5241	3620	5767	6625	4650	7597
		75	1557	1444	3230	1574	888	913	2345	1463	1934	3117	2037	2955	3933	2645	4036	4705	3220	5056	5476	3794	6077	6247	4369	7098	7835	5552	9199
		80	1557	1444	3230	2005	1209	1484	2883	1863	2645	3760	2517	3807	4690	3209	5037	5567	3863	6198	6445	4516	7359	7323	5170	8521	9130	6516	10912
		85	1557	1444	3230	2464	1551	2092	3455	2289	3403	4446	3027	4714	5495	3809	6102	6486	4547	7413	7476	5285	8724	8467	6023	10036			
		90	1557	1444	3230	2951	1914	2736	4062	2741	4206	5173	3569	5676	6349	4445	7232	7460	5272	8702	8571	6099	10172						
		95	1557	1444	3230	3466	2298	3417	4704	3219	5055	5941	4141	6693	7252	5117	8427	8489	6039	10065									
		100	1557	1444	3230	4009	2702	4136	5380	3723	5950	6752	4745	7765	8203	5826	9687												
		110	1557	1444	3230	5178	3572	5682	6837	4808	7878	8496	6044	10074															
	S290	70	2136	1994	4473										2647	1568	1856	3319	2069	2745	3991	2569	3635	4662	3070	4524	6046	4100	6354
		75	2136	1994	4473							2538	1487	1712	3354	2095	2793	4126	2670	3813	4897	3244	4834	5668	3819	5855	7256	5002	7956
		85	2136	1994	4473				2876	1739	2160	3867	2477	3471	4916	3259	4859	5907	3997	6170	6897	4735	7481	7888	5473	8793	9928	6992	11492
		90	2136	1994	4473	2372	1364	1493	3483	2191	2963	4594	3019	4433	5770	3895	5989	6881	4722	7459	7992	5549	8929	9102	6377	10399			
		95	2136	1994	4473	2887	1748	2174	4125	2669	3812	5362	3591	5450	6673	4567	7184	7910	5489	8822	9148	6411	10460						
		100	2136	1994	4473	3430	2152	2893	4801	3173	4707	6173	4195	6522	7624	5276	8444	8996	6297	10258									
		105	2136	1994	4473	4000	2577	3648	5512	3703	5648	7024	4829	7649	8625	6021	9767												
		115	2136	1994	4473	5225	3489	5268	7038	4840	7668	8852	6190	10068															
	S390	75	2929	2735	6135										2561	1354	1131	3333	1929	2151	4104	2503	3172	4875	3078	4193	6463	4261	6294
		80	2929	2735	6135										3318	1918	2132	4195	2572	3293	5073	3225	4454	5951	3879	5616	7758	5225	8007
		85	2929	2735	6135							3074	1736	1809	4123	2518	3197	5114	3256	4508	6104	3994	5819	7095	4732	7131	9135	6251	9830
		90	2929	2735	6135				2690	1450	1301	3801	2278	2771	4977	3154	4327	6088	3981	5797	7199	4808	7267	8309	5636	8737	10596	7339	11763
		95	2929	2735	6135				3332	1928	2150	4569	2850	3788	5880	3826	5522	7117	4748	7160	8355	5670	8798	9593	6592	10435			
		105	2929	2735	6135	3207	1836	1986	4719	2962	3986	6231	4088	5987	7832	5280	8105	9344	6406	10106									
		110	2929	2735	6135	3806	2281	2777	5465	3517	4973	7124	4753	7169	8881	6062	9494												
		120	2929	2735	6135	5086	3235	4471	7061	4706	7085	9035	6176	9698															
KSYHM 1600	S450	80	3442	3032	6606							3471	2117	2542	4679	3017	4141	5820	3866	5650	6961	4716	7160	8101	5566	8670	10450	7316	11779
		85	3442	3032	6606				3074	1821	2017	4362	2781	3721	5726	3796	5526	7014	4756	7230	8302	5715	8935	9590	6674	10639	12241	8650	14148
		90	3442	3032	6606	2419	1333	1150	3863	2409	3061	5307	3485	4972	6836	4623	6995	8280	5699	8906	9724	6774	10817	11168	7850	12728	14141	10064	16662
		100	3442	3032	6606	3794	2357	2969	5576	3685	5328	7359	5013	7688	9247	6419	10185	11029	7747	12545	12812	9075	14904	14595	10403	17263			
		105	3442	3032	6606	4535	2910	3951	6501	4374	6552	8466	5838	9153	10547	7388	11907	12513	8852	14508	14478	10316	17108						
		110	3442	3032	6606	5313	3489	4980	7470	5096	7835	9627	6703	10689	11911	8404	13712	14068	10010	16566									
		120	3442	3032	6606	6977	4729	7182	9544	6641	10580	12112	8553	13977	14830	10577	17574												
		130	3442	3032	6606	8786	6076	9576	11799	8320	13563	14812	10564	17550															
	S510	80	3878	3789	8679										4243	2260	2068	5384	3109	3577	6525	3959	5087	7665	4809	6597	10014	6559	9706
		85	3878	3789	8679							3926	2024	1648	5290	3039	3453	6578	3999	5157	7866	4958	6862	9154	5917	8566	11805	7893	12075
		95	3878	3789	8679				4261	2273	2092	5870	3472	4221	7573	4741	6475	9182	5939	8604	10791	7137	10734	12400	8336	12863	15713	10803	17246
		100	3878	3789	8679				5140	2928	3255	6923	4256	5615	8811	5662	8112	10593	6990	10472	12376	8318	12831	14159	9646	15190			
		105	3878	3789	8679	4099	2153	1878	6065	3617	4479	8030	5081	7080	10111	6631	9834	12077	8095	12435	14042	9559	15035	16007	11023	17636			
		115	3878	3789	8679	5691	3339	3984	8049	5095	7104	10406	6851	10224	12903	8710	13528	15260	10466	16648									
		125	3878	3789	8679	7428	4632	6282	10213	6707	9969	12999	8781	13655	15948	10978	17558												
		135	3878	3789	8679	9309	6033	877																					



Spring Return Symetric Fail Open Torques

			Spring Torque			Symetric Fail Open						Hydraulic Storke Torques (Nm) At Operating Pressure																	
												69 bar						103 bar			121 bar			138 bar			155 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 3500	S610	100	4637	4632	9810				6154	3406	4471	8287	4995	7293	10546	6677	10282	12679	8266	13105	14812	9855	15928	16945	11444	18751	21337	14715	24563
		110	4637	4632	9810	5839	3171	4054	8420	5094	7469	11001	7016	10885	13734	9052	14502	16315	10974	17917	18897	12897	21333	21478	14819	24749	26792	18778	31781
		120	4637	4632	9810	7831	4654	6689	10902	6942	10754	13974	9230	14819	17226	11653	19123	20298	13941	23188	23370	16229	27253	26442	18517	31318	32766	23227	39687
		125	4637	4632	9810	8891	5444	8093	12224	7927	12503	15557	10410	16914	19086	13038	21584	22419	15521	25995	25752	18003	30406	29085	20486	34817			
		135	4637	4632	9810	11142	7121	11072	15030	10017	16216	18918	12913	21361	23034	15979	26808	26922	18874	31953	30809	21770	37098						
		145	4637	4632	9810	13567	8927	14280	18051	12267	20215	22536	15608	26150	27285	19145	32434	31770	22486	38369									
		155	4637	4632	9810	16164	10861	17717	21289	14679	24499	26414	18496	31281	31840	22538	38426												
	170	4637	4632	9810	20385	14005	23303	26550	18597	31461	32714	23189	39619																
	S782	100	5958	5944	12584							6966	3683	4519	9225	5365	7508	11358	6954	10331	13491	8543	13154	15624	10132	15977	20016	13403	21789
		110	5958	5944	12584				7099	3782	4695	9680	5704	8111	12413	7740	11728	14994	9662	15143	17576	11585	18559	20157	13507	21975	25471	17466	29007
		125	5958	5944	12584	7570	4132	5319	10903	6615	9729	14236	9098	14140	17765	11726	18810	21098	14209	23221	24431	16691	27632	27764	19174	32043	34627	24285	41124
		130	5958	5944	12584	8674	4955	6779	12279	7640	11550	15884	10325	16321	19701	13168	21372	23306	15853	26143	26911	18538	30913	30516	21224	35684			
		140	5958	5944	12584	11012	6696	9873	15193	9810	15406	19374	12924	20939	23801	16222	26797	27982	19336	32330	32163	22450	37863						
		145	5958	5944	12584	12246	7615	11506	16730	10955	17441	21215	14296	23376	25964	17833	29660	30449	21174	35595									
		160	5958	5944	12584	16207	10565	16747	21667	14633	23974	27128	18700	31201	32910	23007	38852												
	170	5958	5944	12584	19064	12693	20529	25229	17285	28687	31393	21877	36845																
	S1057	100	7855	7888	16748										7328	3421	3344	9461	5010	6167	11594	6599	8990	13727	8188	11813	18119	11459	17625
		115	7855	7888	16748				6416	2742	2138	9237	4843	5871	12224	7068	9824	15046	9169	13557	17867	11271	17291	20688	13372	21024	26496	17698	28710
		125	7855	7888	16748				9006	4671	5565	12339	7154	9976	15868	9782	14646	19201	12265	19057	22534	14747	23468	25867	17230	27879	32730	22341	36960
		135	7855	7888	16748	7924	3865	4134	11812	6761	9278	15700	9657	14423	19816	12723	19870	23704	15618	25015	27591	18514	30160	31479	21410	35304	39483	27371	45897
		140	7855	7888	16748	9115	4752	5709	13296	7866	11242	17477	10980	16775	21904	14278	22633	26085	17392	28166	30266	20506	33699	34446	23620	39232			
		150	7855	7888	16748	11626	6622	9032	16425	10197	15383	21225	13772	21735	26307	17557	28460	31106	21132	34811	35906	24707	41163						
		160	7855	7888	16748	14310	8621	12583	19770	12689	19810	25231	16756	27037	31013	21063	34688	36474	25130	41915									
	180	7855	7888	16748	20197	13006	20375	27108	18154	29521	34020	23302	38667																
KSYHM5000	S1130	110	9924	9741	20018							10298	4403	3237	13832	6875	7300	17169	9210	11139	20507	11544	14977	23844	13879	18815	30716	18685	26717
		125	9924	9741	20018				11879	5509	5055	16189	8524	10011	20752	11716	15259	25062	14730	20215	29372	17745	25171	33682	20759	30128	42555	26966	40332
		140	9924	9741	20018	12019	5607	5216	17426	9389	11433	22832	13170	17651	28556	17174	24233	33963	20956	30450	39369	24737	36668	44775	28519	42885	55906	36304	55685
		150	9924	9741	20018	15266	7878	8950	21472	12219	16087	27678	16560	23224	34250	21157	30781	40456	25498	37918	46662	29839	45055	52869	34180	52192			
		160	9924	9741	20018	18737	10306	12941	25798	15245	21061	32859	20184	29182	40336	25414	37780	47397	30353	45900	54459	35292	54020						
		170	9924	9741	20018	22431	12890	17190	30403	18466	26357	38374	24042	35524	46815	29945	45230	54786	35521	54397									
		190	9924	9741	20018	30492	18528	26459	40450	25493	37910	50407	32458	49361	60950	39833	61486												
		200	9924	9741	20018	34858	21582	31480	45892	29300	44168	56925	37017	56857															
	S1390	110	12106	11351	22785										11650	5265	4533	14987	7600	8372	18325	9934	12210	21662	12269	16048	28534	17075	23950
		125	12106	11351	22785							14007	6914	7244	18570	10106	12492	22880	13120	17448	27190	16135	22404	31500	19149	27361	40373	25356	37565
		140	12106	11351	22785				15244	7779	8666	20650	11560	14884	26374	15564	21466	31781	19346	27683	37187	23127	33901	42593	26909	40118	53724	34694	52918
		150	12106	11351	22785	13084	6268	6183	19290	10609	13320	25496	14950	20457	32068	19547	28014	38274	23888	35151	44480	28229	42288	50687	32570	49425	63464	41507	64119
		160	12106	11351	22785	16555	8696	10174	23616	13635	18294	30677	18574	26415	38154	23804	35013	45215	28743	43133	52277	33682	51253						
		170	12106	11351	22785	20249	11280	14423	28221	16856	23590	36192	22432	32757	44633	28335	42463	52604	33911	51630									
		190	12106	11351	22785	28310	16918	23692	38268	23883	35143	48225	30848	46594	58768	38223	58719												
		200	12106	11351	22785	32676	19972	28713	43710	27690	41401	54743	35407	54090															
	S1800	125	15722	14742	29591										14954	6715	5686	19264	9729	10642	23574	12744	15598	27884	15758	20555	36757	21965	30759
		140	15722	14742	29591							17034	8169	8078	22758	12173	14660	28165	15955	20877	33571	19736	27095	38977	23518	33312	50108	31303	46112
		150	15722	14742	29591				15674	7218	6514	21880	11559	13651	28452	16156	21208	34658	20497	28345	40864	24838	35482	47071	29179	42619	59848	38116	57313
		160	15722	14742	29591	12939	5305	3368	20000	10244	11488	27061	15183	19609	34538	20413	28207	41599	25352	36327	48661	30291	44447	55722	35230</				



Spring Return Canted Fail Open Torques

			Spring Torque			Canted Fail Open						Hydraulic Storke Torques (Nm) At Operating Pressure																	
												69 bar			86 bar			103 bar			121 bar			138 bar			155 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 400	S110	45	805	856	1961											761	421	591	954	579	906	1147	736	1220	1544	1060	1868		
		50	805	856	1961									890	527	802	1128	721	1190	1366	915	1578	1604	1110	1967	2095	1510	2766	
		55	805	856	1961						941	568	885	1246	817	1382	1534	1052	1852	1822	1287	2322	2110	1523	2791	2704	2007	3758	
		60	805	856	1961				930	559	867	1273	839	1426	1636	1135	2018	1979	1415	2577	2322	1695	3136	2665	1975	3695	3371	2551	4846
		65	805	856	1961	828	477	702	1231	805	1358	1633	1133	2014	2060	1481	2709	2462	1809	3365	2864	2138	4021						
		70	805	856	1961	1089	690	1127	1556	1070	1888	2023	1451	2649	2517	1854	3455	2984	2235	4215									
		75	805	856	1961	1370	918	1584	1906	1355	2458	2441	1793	3331	3009	2255	4256												
		85	805	856	1961	1988	1423	2593	2677	1984	3714	3365	2546	4836															
	S160	55	1139	1211	2777												1200	697	1036	1488	932	1506	1776	1168	1975	2370	1652	2942	
		60	1139	1211	2777												1645	1060	1761	1988	1340	2320	2331	1620	2879	3037	2196	4030	
		65	1139	1211	2777							1299	778	1198	1726	1126	1893	2128	1454	2549	2530	1783	3205	2933	2111	3861			
		70	1139	1211	2777				1222	715	1072	1689	1096	1833	2183	1499	2639	2650	1880	3399	3117	2261	4160						
		75	1139	1211	2777	1036	563	768	1572	1000	1642	2107	1438	2515	2675	1900	3440	3210	2338	4313									
		80	1139	1211	2777	1335	808	1257	1945	1305	2250	2555	1802	3244	3200	2329	4296												
		85	1139	1211	2777	1654	1068	1777	2343	1629	2898	3031	2191	4020															
		90	1139	1211	2777	1993	1344	2328	2764	1973	3586	3536	2603	4843															
	S220	65	1619	1718	3936												1648	947	1390	2050	1276	2046	2453	1604	2702	3281	2280	4052	
		70	1619	1718	3936										1703	992	1480	2170	1373	2240	2637	1754	3001	3103	2135	3762	4046	2919	5329
		75	1619	1718	3936							1627	931	1356	2195	1393	2281	2730	1831	3154	3266	2268	4028	3802	2705	4901			
		80	1619	1718	3936				1465	789	1091	2075	1295	2085	2720	1822	3137	3330	2319	4131									
		85	1619	1718	3936	1174	561	618	1863	1122	1739	2551	1684	2861	3279	2278	4049	3968	2840	5171									
		90	1619	1718	3936	1513	837	1169	2284	1466	2427	3056	2096	3684	3873	2762	5016												
		95	1619	1718	3936	1870	1129	1752	2730	1830	3153	3590	2531	4555															
		100	1619	1718	3936	2247	1436	2366	3200	2213	3919	4152	2991	5472															
KSYHM 900	S140	60	959	1082	2633			1212	722	1199	1642	1078	1956	2096	1456	2758	2525	1812	3515	2955	2169	4273	3384	2525	5030	4267	3259	6589	
		65	959	1082	2633	1086	616	975	1589	1035	1864	2093	1453	2753	2626	1896	3694	3130	2315	4583	3634	2733	5472	4138	3152	6360	5175	4013	8190
		70	959	1082	2633	1412	888	1551	1996	1373	2582	2581	1858	3613	3199	2372	4705	3784	2857	5735	4368	3343	6766	4952	3828	7797	6155	4827	9920
		75	959	1082	2633	1763	1179	2170	2434	1736	3354	3104	2293	4537	3815	2883	5790	4485	3440	6974	5156	3997	8157	5827	4554	9340			
		80	959	1082	2633	2138	1491	2832	2901	2124	4179	3664	2758	5525	4472	3429	6951	5235	4063	8297									
		85	959	1082	2633	2537	1822	3537	3399	2538	5057	4260	3253	6577	5172	4011	8186	6034	4727	9706									
		90	959	1082	2633	2961	2174	4284	3927	2976	5988	4892	3778	7692	5915	4628	9496												
		100	959	1082	2633	3880	2938	5906	5073	3928	8010	6265	4919	10114															
	S200	65	1384	1555	3779			1571	900	1436	1668	980	1607	2201	1423	441	2705	1842	3437	3209	2260	4326	3713	2679	5214	4750	3540	7044	
		70	1384	1555	3779			2156	1385	2467	2156	1385	2467	2774	1899	975	3359	2384	4589	3943	2870	5620	4527	3355	6651	5730	4354	8774	
		75	1384	1555	3779	1338	706	1024	2009	1263	2208	2679	1820	3391	3390	2410	1551	4060	2967	5828	4731	3524	7011	5402	4081	8194			
		80	1384	1555	3779	1713	1018	1686	2476	1651	3033	3239	2285	4379	4047	2956	2170	4810	3590	7151	5573	4224	8498						
		85	1384	1555	3779	2112	1349	2391	2974	2065	3911	3835	2780	5431	4747	3538	2832	5609	4254	8560									
		90	1384	1555	3779	2536	1701	3138	3502	2503	4842	4467	3305	6546	5490	4155	3537	6456	4957	10055									
		95	1384	1555	3779	2983	2073	3928	4060	2967	5826	5136	3860	7725	6275	4807	4284												
		105	1384	1555	3779	3951	2877	5636	5266	3969	7955	6580	5061	10275															
	S290	70	1899	2148	5235			1641	792	1011	1641	792	1011	2259	1306	2103	2844	1791	3133	3428	2277	4164	4012	2762	5195	5215	3761	7318	
		75	1899	2148	5235			2164	1227	1935	2164	1227	1935	2875	1817	3188	3545	2374	4372	4216	2931	5555	4887	3488	6738	6267	4635	9175	
		85	1899	2148	5235	1597	756	935	2459	1472	2455	3320	2187	3975	4232	2945	5584	5094	3661	7104	5955	4376	8624						
		90	1899	2148	5235	2021	1108	1682	2987	1910	3386	3952	2712	5090	4975	3562	6894	5941	4364	8599									
		95	1899	2148	5235	2468	1480	2472	3545	2374	4370	4621	3267	6269	5760	4214	8280	6836	5108	10178									
		100	1899	2148	5235	2940	1872	3304	4133	2862	5408	5325	3853	7512	6587	4901	9740												
		105	1899	2148	5235	3436	2284	4180	4751	3376	6499	6065	4468	8819															
		115	1899	2148	5235	4501	3168	6058	6078	4478	8841																		
S390	75	2605	2947	7181										2169	1018	1242	2839	1575	2426	3510	2132	3609	4181	2689	4792	5561	3836	7229	
	80	2605	2947	7181							2018	893	977	2826	1564	2403	3589	2198	3749	4352	2832	5096	5115	3466	6442	6686	4771	9214	
	85	2605	2947	7181			1753	673	509	2614	1388	2029	3526	2146	3638	4388	2862	5158	5249	3577	6678	6111	4293	8198					
	90	2605	2947	7181			2281	1111	1440	3246	1913	3144	4269	2763	4948	5235	3565	6653	6200	4367	8357	7166	5169	10061					
	95	2605	2947	7181	1762	681	5																						



25% Safety factor is recommended
35% For low temperature



Spring Return Canted Fail Open Torque

			Spring Torque			Canted Fail Open						Hydraulic Storke Torques (Nm) At Operating Pressure																	
						69 bar			86 bar			103 bar			121 bar			138 bar			155 bar			172 bar			207 bar		
			ETC	RTC	BTC	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO	BTO	RTO	ETO
			0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
KSYHM 5000	S140	110	8387	9935	24992							8116	3608	3679	11000	5975	8689	13724	8210	13422	16447	10445	18154	19171	12680	22886	24779	17282	32628
		125	8387	9935	24992				9406 4667 5921			12924	7553	12032	16648	10609	18502	20165	13496	24612	23682	16382	30723	27200	19268	36834	34441	25211	49414
		140	8387	9935	24992	9521	4761	6120	13933	8381	13785	18345	12002	21450	23017	15836	29566	27429	19456	37232	31841	23077	44897	36253	26698	52562			
		150	8387	9935	24992	12170	6935	10723	17235	11091	19522	22300	15248	28322	27663	19649	37639	32728	23805	46438	37793	27962	55238						
		160	8387	9935	24992	15003	9259	15644	20766	13988	25656	26528	18718	35667	32630	23725	46268	38393	28454	56280									
		170	8387	9935	24992	18018	11734	20882	24523	17072	32184	31029	22411	43487	37917	28064	55454												
		190	8387	9935	24992	24596	17132	32311	32723	23801	46429	40849	30470	60547															
		200	8387	9935	24992	28160	20056	38502	37164	27445	54145																		
	S200	110	10175	11494	29391										9212	4416	4290	11936	6651	9023	14659	8886	13755	17383	11121	18487	22991	15723	28229
		125	10175	11494	29391							11136 5994 7633			14860	9050	14103	18377	11937	20213	21894	14823	26324	25412	17709	32435	32653	23652	45015
		140	10175	11494	29391	7733	3202	1721	12145	6822	9386	16557	10443	17051	21229	14277	25167	25641	17897	32833	30053	21518	40498	34465	25139	48163			
		150	10175	11494	29391	10382	5376	6324	15447	9532	15123	20512	13689	23923	25875	18090	33240	30940	22246	42039	36005	26403	50839						
		160	10175	11494	29391	13215	7700	11245	18978	12429	21257	24740	17159	31268	30842	22166	41869	36605	26895	51881									
		170	10175	11494	29391	16230	10175	16483	22735	15513	27785	29241	20852	39088	36129	26505	51055												
		190	10175	11494	29391	22808	15573	27912	30935	22242	42030	39061	28911	56148															
		200	10175	11494	29391	26372	18497	34103	35376	25886	49746																		
	S290	125	13215	14928	36871				9105 3388 1906			13517 7009 9571			18189	10843	17687	22601	14463	25353	27013	18084	33018	31425	21705	40683	40508	29159	56465
		140	13215	14928	36871				12407 6098 7643			17472	10255	16443	22835	14656	25760	27900	18812	34559	32965	22969	43359	38030	27125	52158			
		150	13215	14928	36871							21700	13725	23788	27802	18732	34389	33565	23461	44401	39327	28190	54412						
		160	13215	14928	36871	10175	4266	3765	15938	8995	13777	21700	13725	23788	27802	18732	34389	33565	23461	44401	39327	28190	54412						
		170	13215	14928	36871	13190	6741	9003	19695	12079	20305	26201	17418	31608	33089	23071	43575	39595	28409	54877									
		190	13215	14928	36871	19768	12139	20432	27895	18808	34550	36021	25477	48668															
		200	13215	14928	36871	23332	15063	26623	32336	22452	42266	41340	29842	57909															
		S390	135	16295	18844	46974										12906	5119	3757	17008	8486	10884	21111	11852	18012	25213	15219	25139	33660	22150
140	16295		18844	46974										15109	6927	7584	19521	10547	15250	23933	14168	22915	28345	17789	30580	37428	25243	46362	
150	16295		18844	46974							14392 6339 6340			19755	10740	15657	24820	14896	24456	29885	19053	33256	34950	23209	42055	45377	31766	60171	
160	16295		18844	46974				12858 5079 3674			18620	9809	13685	24722	14816	24286	30485	19545	34298	36247	24274	44309	42010	29003	54321				
170	16295		18844	46974				16615 8163 10202			23121	13502	21505	30009	19155	33472	36515	24493	44774										
190	16295		18844	46974	16688	8223	10329	24815	14892	24447	32941	21561	38565	41545	28622	53514													
200	16295		18844	46974	20252	11147	16520	29256	18536	32163	38260	25926	47806	47794	33749	64370													
220	16295		18844	46974	27926	17445	29853	38821	26386	48782	49717	35327	67710																

25% Safety factor is recommended
35% For low temperature

Contact Us

quifer@quiferactuators.com

Phone: +34 972 50 61 08



Quifer Actuators, SL. is Spanish producer of pneumatic and hydraulic actuators since 1975. Quifer Actuators has a big experience manufacturing, rack and pinion aluminum pneumatic actuators, rotary ductile Iron pneumatic actuators, scotch yoke pneumatic actuators, scotch yoke hydraulic actuators, electro-hydraulics actuators, manual gearboxes, declutch-able gearboxes limit switches, couplings and accessories for any a quarter turn valves as plug valves, ball vales or butterfly valves. Quifer Actuators has a design technician department with extensive experience and has over 30 years creating its own products and evolving existing products

